AMPLIFIER 70FA951

/00S/01S

Service
Service
Service

ServiceManual

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PHILIPS

PHILIPS

SPECIFICATION

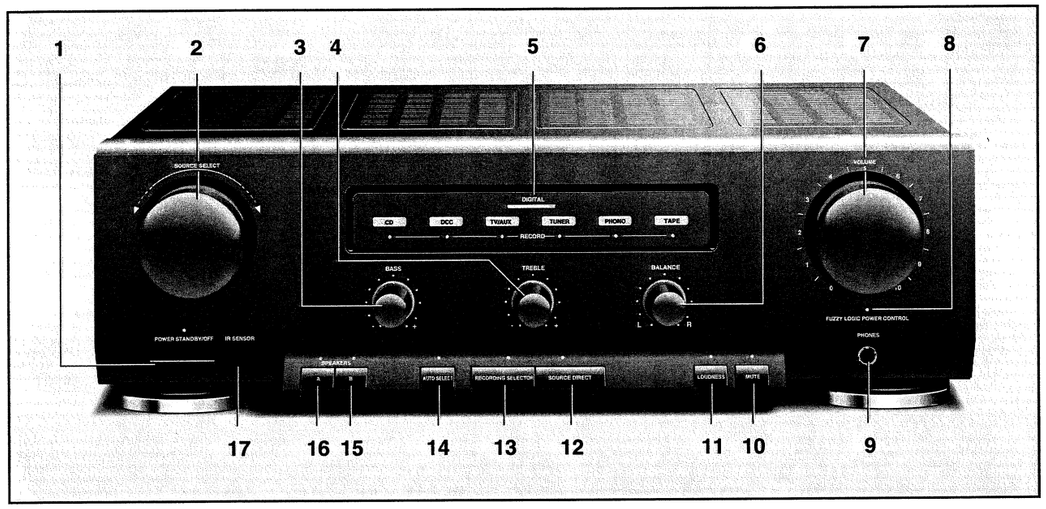
General:

Mains voltage	:230V 50Hz for/00
	:240V 50Hz for/05
	:120/230V 50Hz/60Hz for/01
Power consumption	:≤ 330W at 2x80W output power (at8Ω load)
	:≤ 520W at 2x110W output power(at4Ω load)
	:≤ 20W at stand by
Fuzzy Power Control	:checks the output power level continuously
Dimensions:(wxhxd)	:435x124x300 mm

Amplifier:

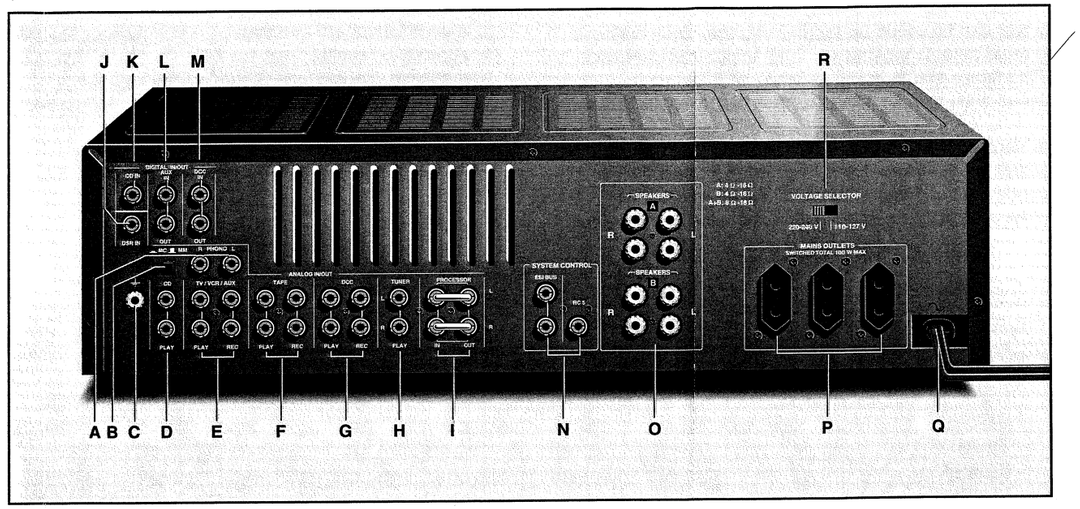
Output power &	:2x 80W at 8Ω D=≤0,7%(IEC/DIN)
Distortion (D)	:2x110W at 4Ω D=≤0,7%(IEC 268.3)
	:2x 85W at 8Ω D=≤0,003% (at 1kHz)
	:2x 80W at 8Ω D=≤0,05% (20Hz...20kHz)
Max output power	:2x150W at 8Ω with IEC 268 noise
Sign.Noise:	
Phono input M.M.	:≥83dBA (A-curve weighted)(IEC at Prated and Rsource=2k2)
Phono input M.C.	:≥75dBA (A-curve weighted)(IEC at Prated and Rsource=100Ω)
Other inputs	;≥103dBA (A-curve weighted)(IEC at Prated and Rsource=22kΩ)
Crosstalk :	
Between channels	:≥50dB (100Hz.....10kHz)
source	:≥65dB (100Hz.....10kHz)
Loudspeaker impedance	:4.....16Ω
Headphone	:6,3mm stereo jack
Output voltage	:≥ 7,5V EMF value
Output impedance	:120Ω ±10%
Frequency characteristic	
Linear inputs (direct mode)	:15Hz....45kHz :≤1dB (at 1kHz)
Phono amplifier M.M.	:20Hz....20kHz :≤1dB (at 1kHz)
Phono amplifier M.C.	:20Hz....20kHz :≤1dB (at 1kHz)
Tone controle	:Bass +10dB to -10dB ±2dB at 80Hz
	:Treble +10dB to -10dB ±2dB at 10kHZ
	:Loudness +6dB ±2dB volume ≤-40dB at 100Hz
	+4dB ±1,5dB volume ≤-40dB at10kHz
Mute attenuation	:-20dB ±3dB
Balance control	: 0.....-60dB minimum
Input sensitivity	:Tuner 250mV Ri ≥ 20kΩ
	:TV/AUX 250mV Ri ≥ 20kΩ
	:CD 250mV Ri ≥ 20kΩ
	:Tape 250mV Ri ≥ 20kΩ
	:DCC 250mV Ri ≥ 20kΩ
	:Process 250mV Ri ≥ 20kΩ
	:Phono/MM 2,5mV Ri ≥ 47kΩ/220pf
	:Phono/MC 280μV Ri ≥ 100Ω
Output voltage	:TV/AUX 250mV Ro < 2k5
	:Tape 250mV Ro < 2k5
	:DCC 250mV Ro < 2k5
	:Process 250mV Ro < 2k5
Digital recorder selector:	
input	:impedance 75Ω
	:sensitivity 200 ...500mV peak-peak
output	:impedance 75Ω
	:level 500mV peak-peak into 75Ω load
bitrate	:2...3MBit/sec
input type	:unbalanced
output type	:unbalanced
Remote Control	:RC5 input 1xcinch (orange)
	:Enhanced easylink 2xcinch (green)

CONTROLS



			Pos.nr.
			D6648
1)	Standby + acknowledge led		
	Power off/standby button		1525
2)	Source sel.knob + Mag.Touch		1605
3)	Bass knob		3651
4)	Treble knob		3652
5)	Display window and indication led		
	Digital source indication window		1620
	CD indication window		1624
	CD record source led (red)		D6642
	DCC indication window		1621
	DCC record source led (red)		D6643
	TV/AUX indication window		1626
	TV/AUX record source led (red)		D6644
	Tuner indication window		1623
	Tuner record source led (red)		D6645
	Phono indication window		1622
	Phono record source led (red)		D6646
	Tape indication window		1625
	Tape record source led (red)		D6647
6)	Balance knob		3603
7)	Volume knob		3601
8)	Fuzzy Power control Led		D6687
9)	Headphone		1601
10)	Mute button	+ Red indic.led	1611 + D6640
11)	Loudness button	+ Red indic.led	1608 + D6635
12)	Source direct but.	+ Red indic.led	1606 + D6636
13)	Rec.sel.button	+ Red indic.led	1612 + D6641
14)	Auto-select button	+ Red indic.led	1607 + D6639
15)	Speakers B-button	+ Red indic.led	1609 + D6638
16)	Speakers A-button	+ Red indic.led	1610 + D6637
17)	IR-receiver eye		6700

CONNECTIONS



			Pos.nr.
A)	Phono	input	1801
B)	Phono MM/MC selector		1802
C)	Phono	ground	
D)	CD	input	1475
E)	TV/AUX/VCR	input	1401
	TV/AUX/VCR	output	1401
F)	Tape	input	1402
	Tape	output	1402
G)	DCC	input	1402
	DCC	output	1402
H)	Tuner	input	1403
I)	Processor	in	1403
	Processor	out	1403
J)	DSR (digital satelite receiver)input		1475
K)	CD digital	input	1475
L)	AUX digital	input	1475
	AUX digital	output	1475
M)	DCC digital input		1475
	DCC digital output		1475
N)	Easy link	Bus	1261
	RC 5	Bus	1262
O)	Speaker system A Right		1264
	Speaker system A Left		1264
	Speaker system B Right		1263
	Speaker system B Left		1263
P)	Switched AC outlets (max100W)		1526-27-28
Q)	Fixed mainscord		
R)	Voltage selector (for/01 only)		1532

SERVICE TEST PROGRAM

µ Processor Test

The test can be called up by pressing the keys Loudness and mute at te same time when te amplifier is switched on.The lamps and leds will automatically light up in order,as shown on fig 1 from step A to F .

One second after the last source indication has been selected the volume volume knob turns for about 1 seconds right and then 1 seconds left to check if the volume control works.After the volume check a eeprom check is started.This is done by simulating a powerdown,all leds ands lamps are switched off and a number of setting is stored and recalled from the eeprom.Whem after 0,2 seconds the magic touch is used to wake up the amplifier,the amplifier will come up with the setting step G see fig 1

If this is not the case check eeprom or µ processor.

FIG 1

Steps	A	B	C	D	E	F	G
Lamps							
CD	on	off	off	off	off	off	off
DCC	off	on	off	off	off	off	off
TV/AUX	off	off	on	off	off	off	off
TUNER	off	off	off	on	off	off	off
PHONO	off	off	off	off	on	off	off
TAPE	off	off	off	off	off	on	on
Record Out Selector Leds							
CD	off	off	off	off	off	on	off
DCC	off	off	off	off	on	off	off
TV/AUX	off	off	off	on	off	off	off
TUNER	off	off	on	off	off	off	off
PHONO	off	on	off	off	off	off	off
TAPE	on	off	off	off	off	off	on
Source Leds							
St/BY	on	off	on	off	on	off	off
Speak.A	off	on	off	on	off	on	on
Speak.B	on	off	on	off	on	off	off
Auto sel	off	on	off	on	off	on	on
Rec.sel	on	off	on	off	on	off	off
Sour.Dir.	off	on	off	on	off	on	on
Loudness	on	off	on	off	on	off	off
Mute	off	on	off	on	off	on	on

GB

Safety regulations require thatthe set be restored to its original condition and that parts which are identical with those specified be used.

NL
Veiligheidsbepalingen vereisen dat het apparaat in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizione originali e che iano utilizzati pezzi di ricambiago identici a quelli specificati.

F

Les normes de sécurité exigent que lappareil soit remis à létat d'origine et que soient utilisées les pieces de rechange identiques à celles spécifiées.

Pour votre sécurité, ces documents doivent etre utilisés par des specialistes agrées, seuls habilités à réparer votre appareil en panne.

Quiescent Current

SK.... SWITCH	SIGNAL	TO	VOLUME	ADJUST	OSILLOSCOPE	D.C.METER INDICATOR
STAND - BY			Min.	L ch R 3285		L ch. 1 2 DC 35 mV
				R ch. R 3284		R ch. 3 4 DC 35 mV

- Check for good thermal contact between power transistor and heatsink.
- Mains Voltage 230V ±5%
- Ambient themperature =20° ± 5° and heatsink must be atambient temperature.
- Set volume position to minimum.
- Place the set in stand-by position.
- Trimpotmeter in clock wize position.
- The adjustment must be finished for both channels 30sec after power on.

GB WARNING

All IC_s and many other semi conductors are susceptible to electrostatic discharges (ESD).
Careless handling during repair can reduce life drastically.When reparing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance. Keep components and tools also at this potential.

NL WAARSCHUWING

Alle ICs en vele andere halfgeleiders zijn gevoelig voor electrostatische ontladingen (ESD)
Onzorgvuldig behandelen tijden reparatie kan de levensduur drastisch doen verminderen. Zorg ervoor dat U tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

D WARNUNG

Alle IC_s und viele andere Halbleiter sind empfindlich gegenüber electrostatischen Entladungen (ESD).
Unsorgfältige Behandlung im Reparaturfall kan die Lebensdauer drastisch reduzieren. Veranlassen Sie, dass Sie im - Reparaturfall über ein Pulsarmband mit Widerstand verbunden sind mit dem gleichen Potential wie die Masse des Gerätes.
Bauteile und Hilfsmittel auch auf dieses gleiche Potential halten.

F ATTENTION

Tous les IC e beaucoup d'autre semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrair etre considérablement écourtée par le fait qu'aucune precaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien etre relié au meme potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller á ce que les composants ainsi que les outils que l'on utilise soient également á ce potentiel.

I AVERTIMENTO

Tutti IC e parecchi semiconduttori sono sensibili alle scariche statiche. (ESD)
La loro longevità potrebbe essere fortemente ridatta in caso di non osservazione della più grande cauzione alla loro manipolazione. Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

SERVICE HINTS

µProcessor pinning IC 7650

1	Reset	Reset
2	IRQ	RC-5
3	VPP	+5V
4	PA7	Standby led
5	PA6	Lamp CDR/AUX
6	PA5	Mute amplifier
7	PA4	Standby amplifier
8	PA3	Volume up
9	PA2	Keyboard scan line 3
10	PA1	Keyboard scan line 2
11	PA0	Keyboard scan line 1
12	PB0	Keyboard return line 3
13	PB1	Keyboard return line 2
14	PB2	Keyboard return line 1/Data-out eeprom
15	PB3	Volume down
16	PB4	Data in eeprom/Data shiftregisters
17	PB5	Clock eeprom/Clock shiftregisters
18	PB6	CS eeprom
19	PB7	Strobe shiftregisters
20	GND	Ground
21	PC7	Lamp PHONO
22	PC6	Lamp TAPE
23	PC5	Lamp CD
24	PC4	Lamp DCC
25	PC3	CE2 analog/digital selector
26	PC2	Clock analog/digital selector
27	PC1	Data analog/digital selector
28	PC0	CE1 analog
29	PD0	Autoprotect line
30	PD1	Sence rotary knob
31	PD2	Rotary line 1
32	PD3	Rotary line 2
33	PD4	Powerdown/Option line 2
34	PD5	Powerdown/Option line 1
35	TCMP	EasyLink output
36	PD7	EasyLink input
37	TCAP	EasyLink input
38	OSC2	4 MHz crystal
39	OSC1	4 MHz crystal
40	VCC	+ 5V

Fuzzy Logic Power Control

The fuzzy logic power controller checks the output power level continuously.
If very high power levels are delivered over a prolonged period, the fuzzy logic power controller Led starts blinking. The controller regulates the power level by adjusting the volume level step by step. If necessary,this is repeated several times until an acceptable power level is reached. If a very high power level is sustained for too long,the fuzzy logic power controller activates a mute of 20dB.

Working description of Fuzzy Logic Power Control:

High power output levels are detected over the 0,1 ohm sensing resistors (R3384/R3385/R3387)in the high voltage supply lines.
High current peaks,especially at low impedanees,are also sensed by the base - emitter of transistor 7290 for positive going signals and transistor 7291 for the negative going signals. The collector current of transistor 7290 is a measure of output power and charges C2687. This capacitor is discharged by resistor R3687.
If the charge current is higher than the discharging, pin 1 of the inverter Ic7685 goes high.This forces pin 29 of the µP7650 high.
The µP now has an algorithm to activate the volume motor which turns the volume potmeter down for a certain time.This volume correcting timing,defined in the software algorithm, depends on the voltage of capacitor 2687.During the control process led 6687 flashes at a rate of two times per seconds.

Testing of the Fuzzy Logic working:

Connect 8 ohms load resistors to speaker A therminals.
Turn up the volume to a power of ±2X60 Watt (±22V). Around this power the Fuzzy Logic control will start to work,you can recognise this when the Fuzzy Logic led starts to blink. It can also be measured on pin 29 of µP 7650,
this goes from normal low to high.
When pin 29 goes high and stays this way,the µP 7650 starts its intern timing cycle.
After 12 minutes,the volume will turn itself back a little.
The total cycle would be,on condition that pin 29 stays high, as following:
On the 12th minute step down volume
On the 16th minute step down volume
On the 20th minute step down volume
On the 22th minute the mute switches on.
This situation should normally never occur,the reason herefor is,that with the first volume step back(down),the power isn't 2X60W any more,and thees pin 29 is low again.

Reprogramming of TV and Laser Disc source allocation:

The TV or Laser Disc inputs are allocated to the TV/AUX source. You can change the TV and LD source allocation as follows.
Changing the Laser disc source allocation:
* Keep the SOURCE DIRECT key 12 pressed while switching on the power. The TV/AUX indication (or the source to which LD is currently allocated) starts blinking.
* Select an other location with the source select knob.The selected source indication lights up on the display.
* Store your selection by pressing the RECORDING SELECTOR key 13.
* The amplifier returns to normal active mode.

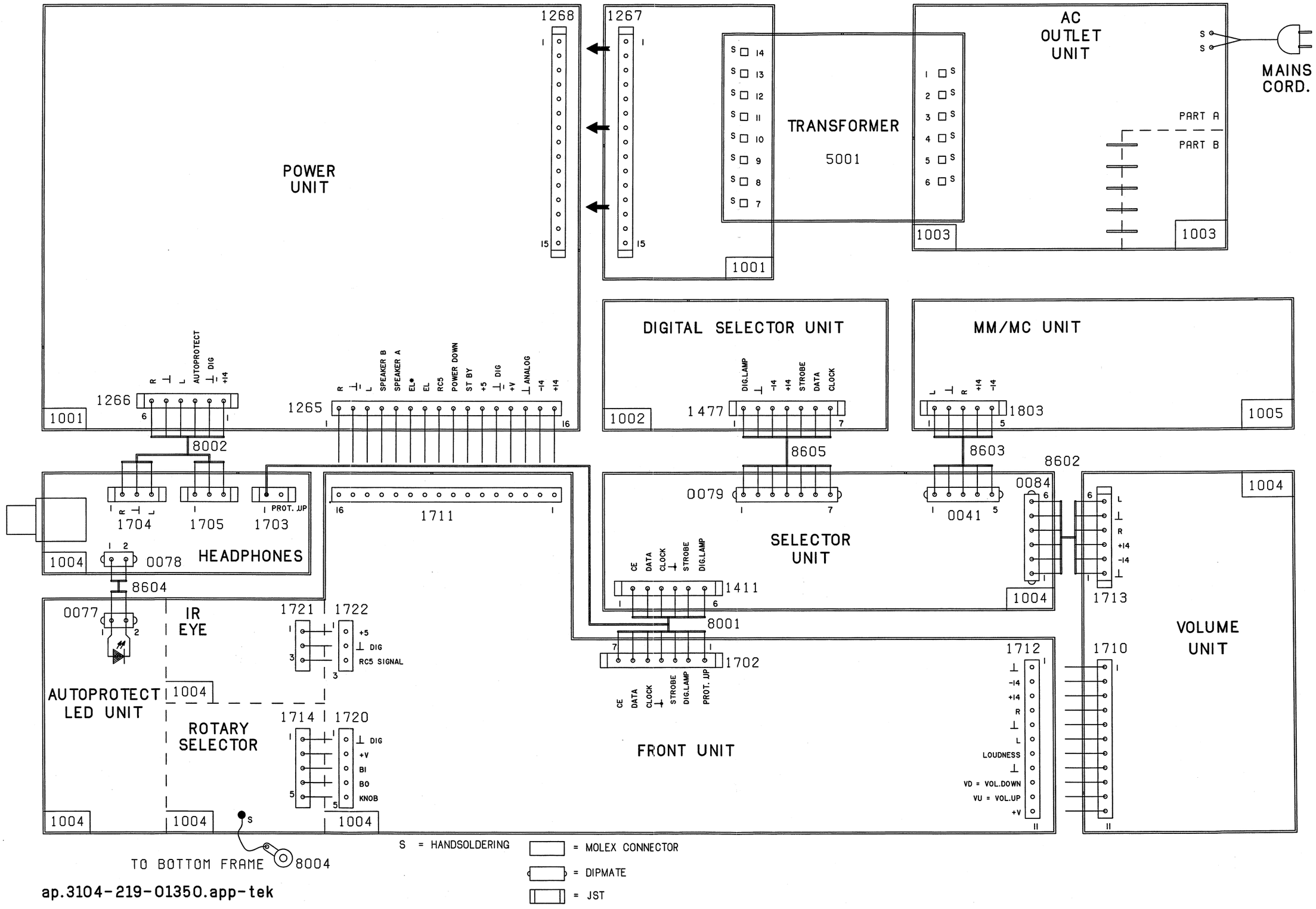
Changing the TV source allocation:
* Keep the AUTO SELECT key 14 pressed while switching on the power. The TV/AUX indication (or the source to which TV is currently allocated) starts blinking.
* Select an other location with the source select knob.The selected source indication lights up on the display.

* Store your selection by pressing the RECORDING SELECTOR key 13.
* The amplifier returns to normal active mode.

Notes:
-Any source except PHONO can be allocated to TV or LD.
-When TV and/or LD are allocated to another source,the original source cannot be selected by the remote control.

NOTES

WIRING DIAGRAM



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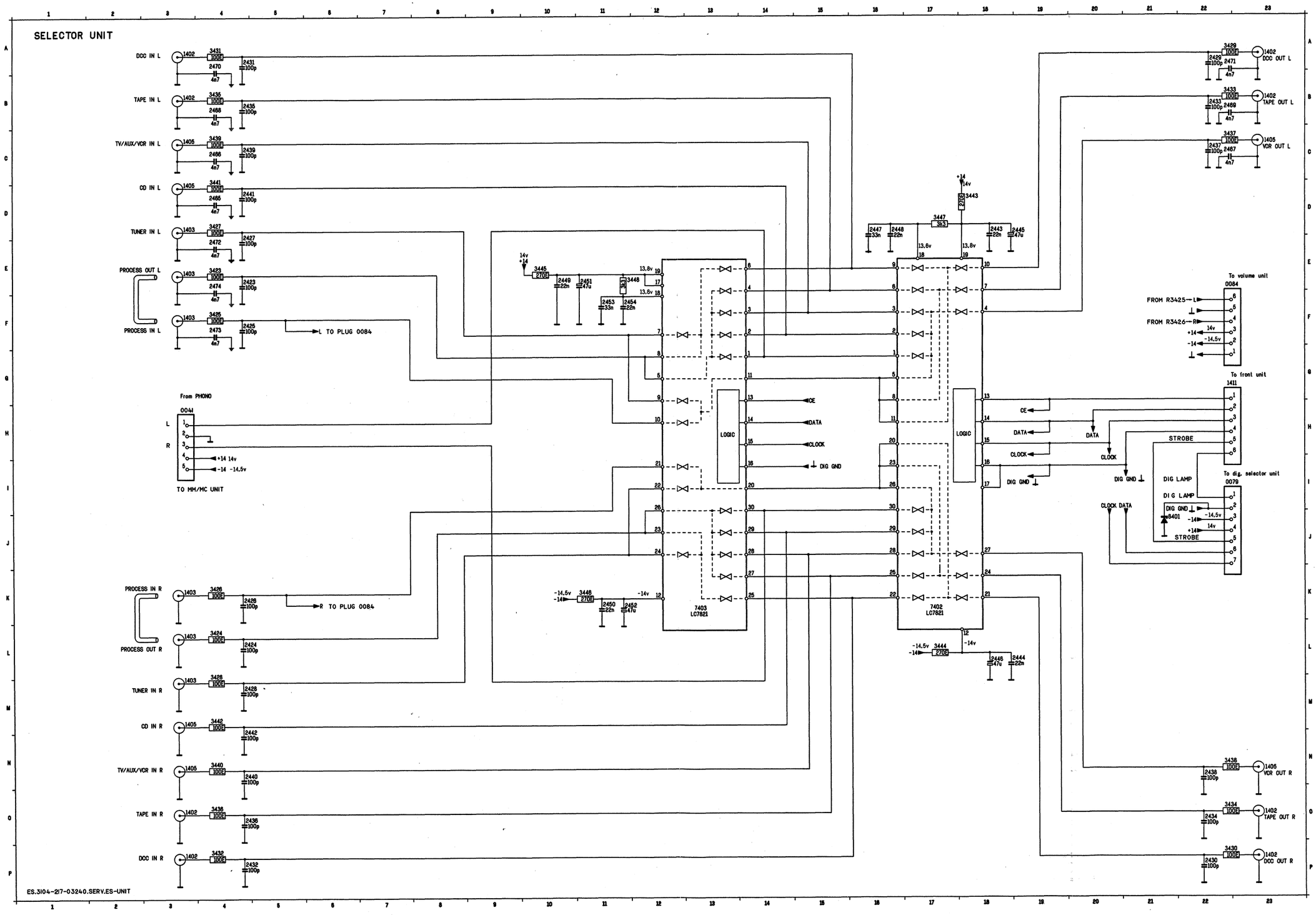
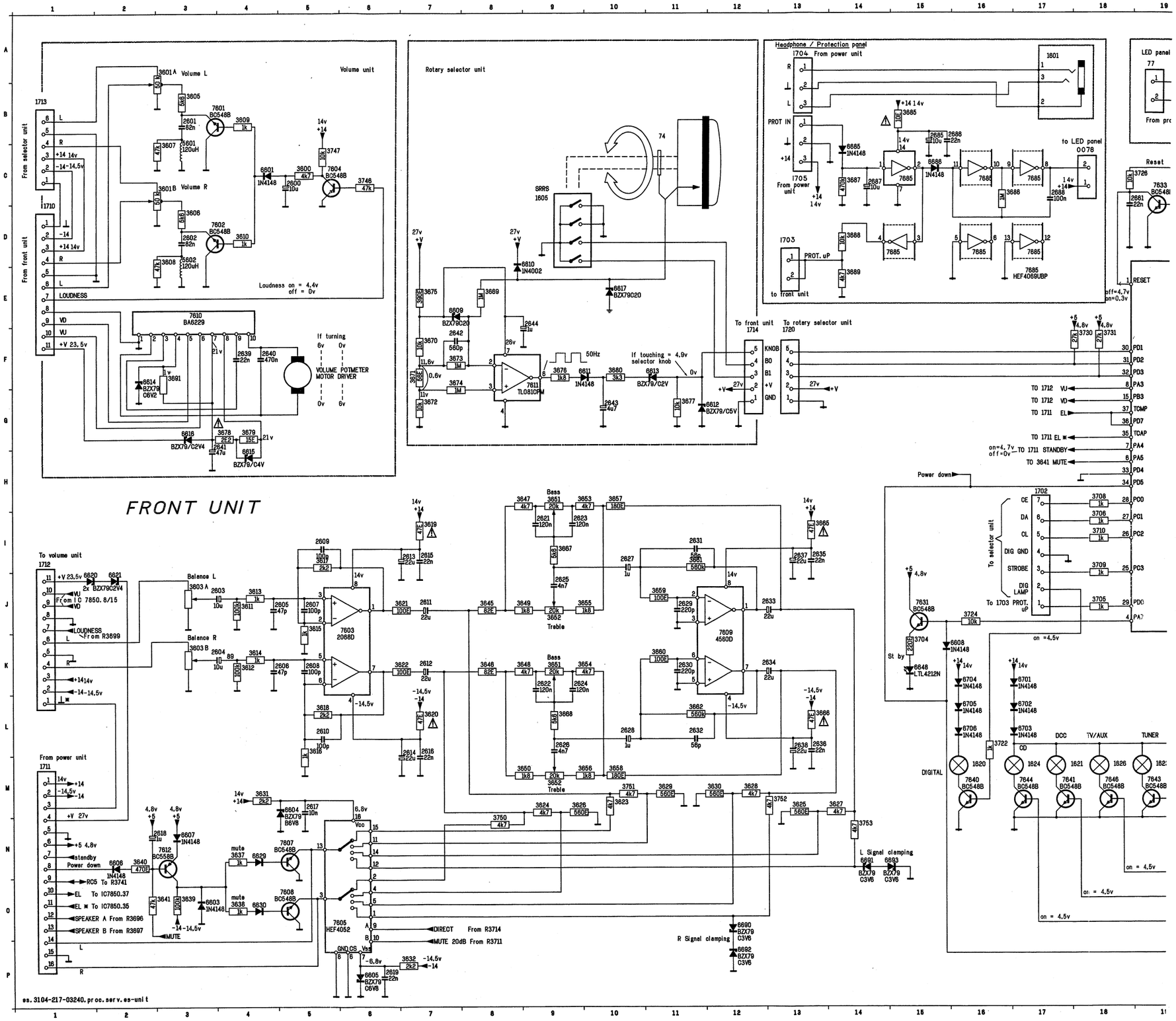
SELECTOR UNIT



1402 R23
1402 A3
1402 B23
1402 B3
1402 D23
1402 D3
1402 P23
1402 P3
1403 D3
1403 E3
1403 F3
1403 K3
1403 L3
1403 N3
1405 C23
1405 C3
1405 D3
1405 N3
1405 N23
1405 N3
2423 E4
2424 L4
2425 F4
2426 K4
2427 E4
2428 M4
2429 R22
2430 P22
2431 R4
2432 P4
2433 B22
2434 D22
2435 B4
2436 D4
2437 C22
2438 N22
2439 C4
2440 N4
2441 D4
2442 M4
2443 D18
2444 L19
2445 D19
2446 L18
2447 D16
2448 D16
2449 E10
2450 K11
2451 E11
2452 K11
2453 F11
2454 F11
2465 D4
2466 C4
2467 C22
2468 B4
2469 B22
2470 R4
2471 R22
2472 E4
2473 F4
2474 E4
3423 E4
3424 L4
3425 F4
3426 K4
3427 D4
3428 L4
3429 R22
3430 P22
3431 R4
3432 P4
3433 B22
3434 D22
3435 B4
3436 D4
3437 C22
3438 N22
3439 C4
3440 N4
3441 C4
3442 M4
3443 D18
3444 L17
3445 E10
3446 K11
3447 D17
3448 E11
6401 J21
7402 K17
7403 K13

FRONT UNIT


Volume unit
Volume L
Volume R
From selector unit
From front unit
Loudness on = 4,4v
off = 0v
If turning
VOLUME POTMETER
MOTOR DRIVER
Rotary selector unit
SRRS
If touching = 4,9v
selector knob
To front unit
To rotery selector unit
Headphone / Protection panel
From power unit
PROT IN
PROT. uP
to front unit
to LED panel
LED panel
Reset
RESET
off=4,7v
on=0,3v
Power down
To selector unit
To 1703 PROT. uP
DIGITAL
CD
DCC
TV/AUX
TUNER
To volume unit
From power unit
From I C 7850. 8/15
From R3899
Balance L
Balance R
Bass
Treble
mute
DIRECT From R3714
MUTE 20dB From R3711
L Signal clamping
R Signal clamping
St by
on =4,5v
on = 4,5v
ss. 3104-217-03240. proc. serv. es-unit

Volume unit

Rotary selector unit

Headphone / Protection panel

LED panel

From protection panel

From power unit

to LED panel

From front unit

SRRS

Reset

From plug 1711

IR EYE

4MHz

VOLUME POTMETER MOTOR DRIVER

If turning

If touching = 4,9v selector knob

50Hz

Bass

Treble

To front unit

To rotary selector unit

TO 1712 VU

TO 1712 VD

TO 1711 EL

TO 1711 EL

TO 1711 STANDBY

TO 3641 MUTE

Power down

To selector unit

To 1703 PROT. uP

DIGITAL

DCC

TV/AUX

TUNER

PHONO

TAPE

on =4,5v

on =4,7v off=0v

off=4,7v on=0,3v

L Signal clamping

R Signal clamping

DIRECT From R3714

MUTE 20dB From R3711

SPEAKER A TO 1711

SPEAKER B TO 1711

MUTE-20dB TO IC7605

LOUDNESS TO 1712

DIRECT TO IC7805

SPEAKER A

SPEAKER B

MUTE

LOUDNESS

DIRECT

ROS

AUTO SEL

ROS CD

ROS DCC

ROS TV/VCR

ROS TUNER

ROS PHONO

ROS TAPE

1606 DIRECT
1607 AUTO SEL
1608 LOUDNESS
1609 B
1610 A
1611 MUTE
1612 ROS

1601	A17	3669	E8
1605	F25	3670	F7
1607	G25	3671	F7
1608	F24	3672	G7
1609	G24	3673	F7
1610	G24	3674	F7
1611	F24	3675	E7
1612	G25	3676	F8
1620	M16	3677	G11
1621	M18	3678	G4
1622	M20	3679	G4
1623	M19	3680	F10
1624	M17	3685	B15
1625	M20	3686	C16
1626	M18	3687	C14
1702	H17	3688	D14
1714	F12	3689	E14
1720	F13	3690	A19
2600	C5	3691	F3
2601	B3	3693	C20
2602	D3	3696	J25
2603	J4	3697	J25
2604	K4	3698	K25
2605	J4	3699	K25
2606	K4	3700	L25
2607	J5	3701	L25
2608	K5	3702	L25
2609	I5	3703	M26
2610	L5	3704	K15
2611	J7	3705	J18
2612	K7	3706	I18
2613	I7	3708	H18
2614	L7	3709	I18
2615	I7	3710	I18
2616	L7	3711	I25
2617	M5	3714	J25
2618	N2	3716	O21
2619	P6	3717	N21
2621	I8	3718	M21
2622	K9	3719	O21
2623	I9	3720	M21
2624	K9	3721	N21
2625	J9	3722	L16
2626	L9	3724	J16
2627	I10	3726	C19
2628	L10	3728	E23
2629	J11	3730	F18
2630	K11	3731	F18
2631	I11	3732	F24
2632	L11	3733	F25
2633	J13	3734	F25
2634	K13	3739	C24
2635	I13	3740	D24
2636	L13	3741	D23
2637	I13	3742	D23
2638	L13	3744	D19
2639	F4	3745	E21
2640	F4	3746	C6
2641	G3	3747	C5
2642	F7	3750	N8
2643	G10	3751	M10
2644	E9	3752	M13
2661	C18	3753	N14
2662	D25	3605	E21
2663	M22	6601	C4
2664	C19	6603	O3
2667	D20	6604	M5
2668	D20	6605	P6
2669	J22	6606	N2
2670	M22	6607	N3
2672	K22	6608	K16
2685	B15	6609	E7
2686	B15	6610	E9
2687	C14	6611	F10
2688	C17	6612	G12
3600	C5	6613	F11
3605	B3	6615	H4
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3610	D4	6629	N4
3611	J4	6630	O4
3612	K4	6632	O23
3613	J4	6633	O23
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3615	J5	6635	K26
3616	L5	6636	L26
3617	I5	6637	J26
3618	L5	6638	J26
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3620	L7	6640	K26
3621	J7	6641	L26
3622	K7	6642	M26
3623	M10	6643	M26
3624	M9	6644	N26
3625	M13	6645	N26
3626	M9	6646	O26
3627	M14	6647	O26
3628	M12	6648	K15
3629	M11	6685	C14
3630	M12	6686	C15
3631	M4	6687	R20
3632	P7	6690	O12
3637	N4	6691	N14
3638	O4	6692	P12
3639	O3	6693	N15
3640	N2	6700	D26
3641	O3	6701	K17
3645	J8	6702	L17
3646	K8	6703	L17
3647	M8	6704	K16
3648	K9	6705	L16
3649	J9	6706	L16
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3653	H10	7607	N5
3654	K10	7608	O5
3655	J10	7609	K12
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3657	H10	7611	F9
3658	M10	7612	N3
3659	J11	7631	J15
3660	K11	7633	C19
3661	I11	7636	E23
3662	L11	7639	D24
3665	I13	7640	M16
3666	L13	7641	M17
3667	I9	7642	M20
3668	L9	7643	M19
		7644	M17
		7645	M20
		7646	M18
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		7648	N23
		7649	I23
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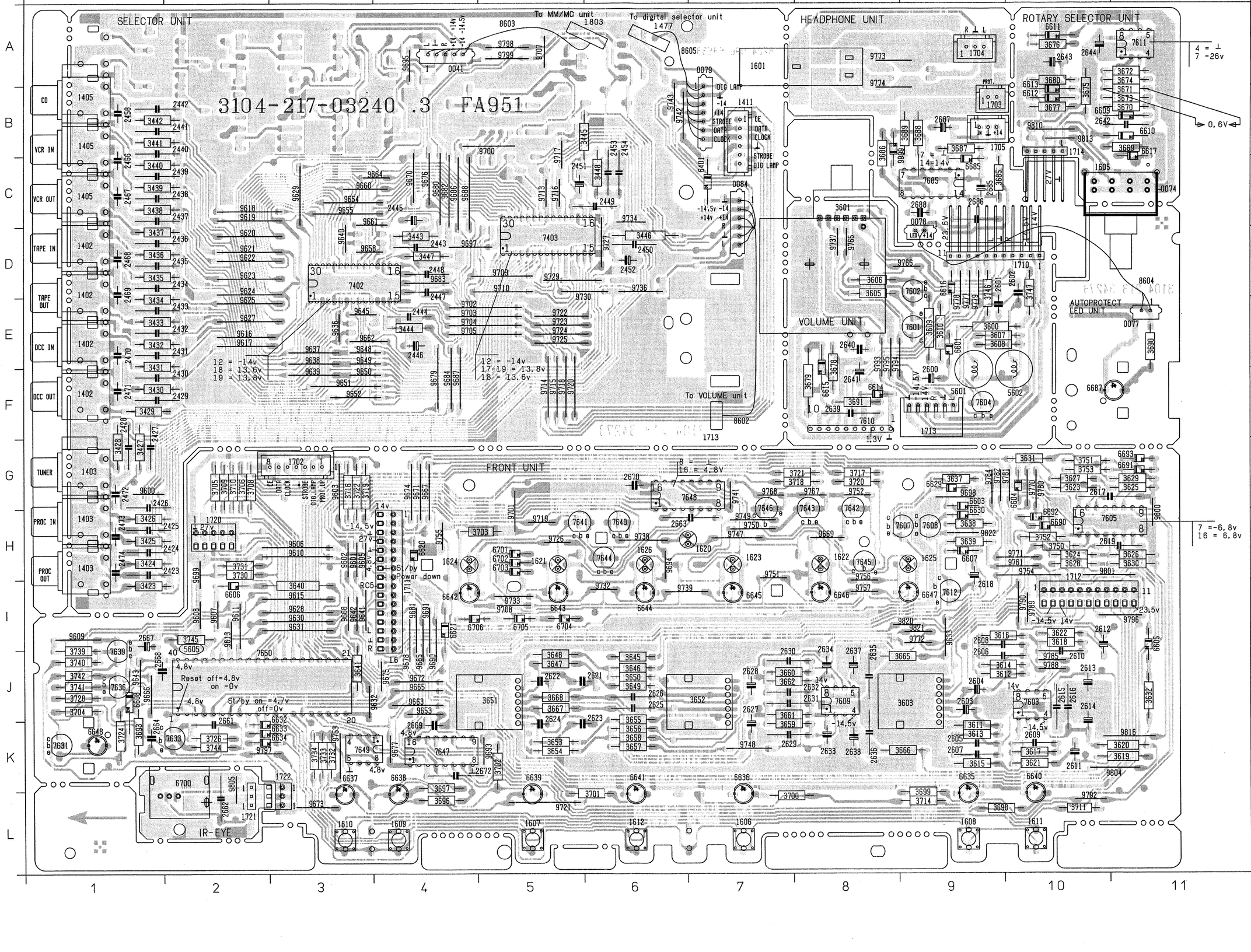
		120uH	E3



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1605	C10	2643
1606	L7	2644
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1625	H9	2687
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1705	B9	3426
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1711	I 4	3428
1712	H10	3429
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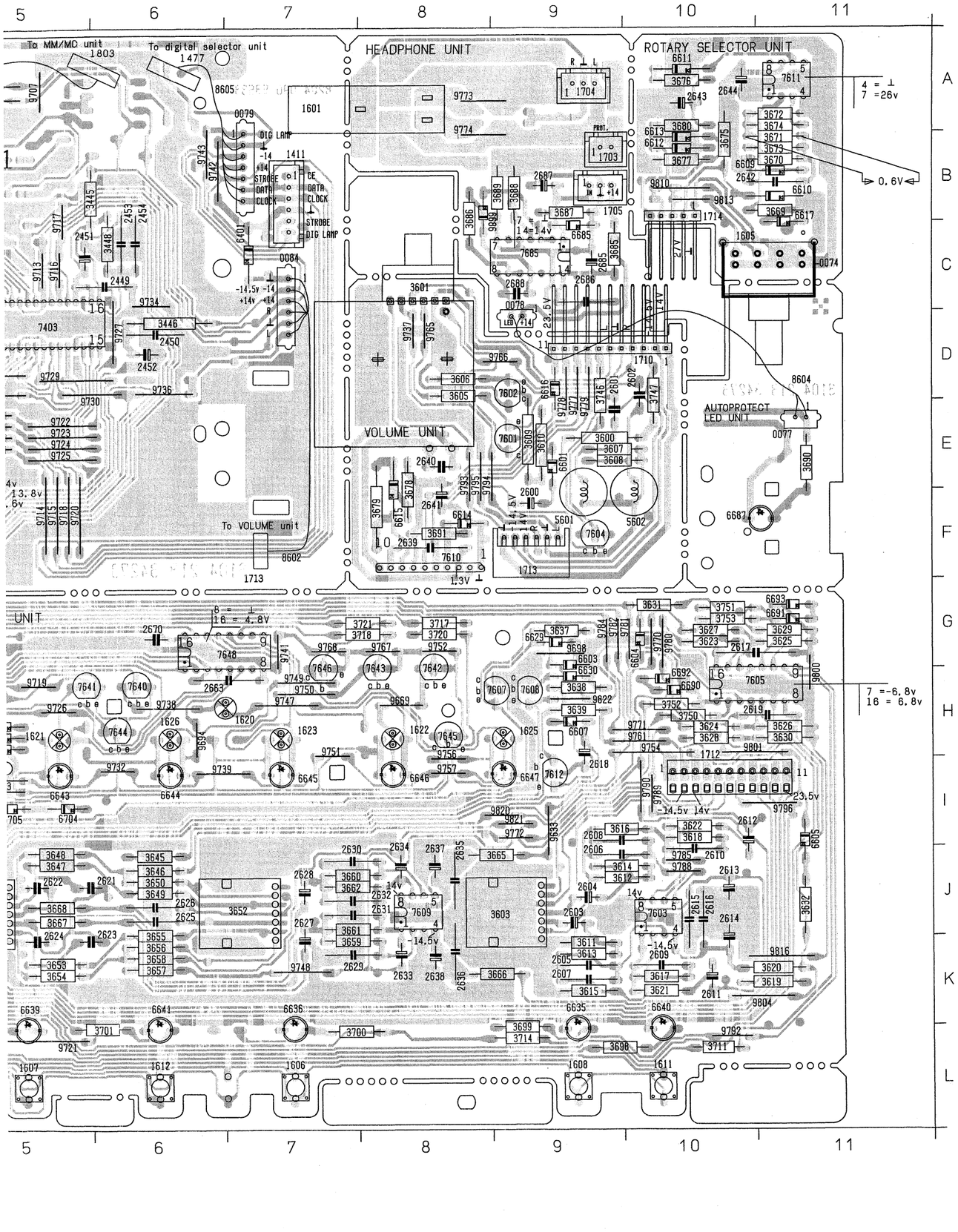

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0078	C9	2628	J7	3666	K9	6691	G11	9680	C4
0079	A7	2629	K7	3667	J5	6692	H10	9681	I 4
0084	C7	2630	J7	3668	J5	6693	G11	9682	C4
1402	D1	2631	J8	3669	B11	6700	K2	9683	D4
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1402	E1	2633	K8	3671	B11	6702	H5	9685	J4
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1403	H1	2636	K8	3674	A11	6705	I 5	9688	C4
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1405	B1	2638	K8	3676	A10	7402	D3	9691	I 4
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1606	L7	2644	A10	3686	B8	7605	H11	9699	H2
1607	L5	2661	K2	3687	B9	7607	H9	9700	B5
1608	L9	2662	L2	3688	B9	7608	H9	9701	H5
1609	L4	2663	H6	3689	B9	7609	J8	9702	E4
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1714	B10	3431	F1	3714	L9	7685	C9	9724	E5
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2424	H2	3436	D1	3720	G8	9600	G1	9730	E6
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2428	F1	3440	C1	3726	K2	9605	H3	9736	D6
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2432	E2	3444	E4	3732	K3	9609	I 1	9741	G7
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2434	D2	3446	D6	3734	K3	9611	I 2	9743	B6
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2451	C5	3616	I 9	6601	E9	9631	I 3	9770	G10
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2454	B6	3619	K11	6605	I 11	9636	E3	9773	A8
2458	B1	3620	K11	6606	I 2	9637	E3	9774	B8
2466	C1	3621	K10	6607	H9	9638	E3	9777	E9
2467	C1	3622	I 10	6608	J1	9639	F3	9778	E9
2468	D1	3623	G10	6609	B10	9640	D3	9779	E9
2469	D1	3624	H10	6610	B11	9641	I 3	9780	G10
2470	E1	3625	G11	6611	A10	9642	I 3	9781	G10
2471	F1	3626	H11	6612	B10	9643	J1	9782	G9
2472	G1	3627	G10	6613	B10	9645	E3	9784	G9
2473	H1	3628	H10	6614	F8	9648	E3	9785	J10
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2618	I 9	3655	K6	6644	I 6	9671	G4	9821	I 9
2619	H10	3656	K6	6645	I 7	9672	J4	9822	H9
2621	J6	3657	K6	6646	I 8	9673	L3		
2622	J5	3658	K6	6647	I 9	9674	G4		
2623	K6	3659	K7	6648	K1	9675	J4		
2624	K5	3660	J7	6685	C9	9676	C4		

POWER UNIT

PRIMARY FOR /00 /05 /06

1531 T2A-H
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2525 4n7
Brown
MAINS
Blue
1526 1527 1528
235V~
FUSE
AC OUTLET UNIT 1003a

PRIMARY FOR FA951 /01

1531 T4A-H
1525
2525 4n7
Brown
MAINS
Blue
1526 1527 1528
1532
120V 230V
8530 120V
8529
8528
8527 10V
8526 110V
1003b
FUSE
AC OUTLET UNIT 1003a

DRAW POSITION 120V

5001
1267 1268

1250 T5A
1251 T5A
1252 T3,15A
1253 T3,15A
1259 T1A
1260 T1A

79V~ 39,5V~ 21,5V~ 21,5V~ 45V~ 39,5V~ 21,5V~ 43V~ 21,5V~

6283 D5SBA20
6284 D3SBA20
6278 6279 6280 6281 4x 1N4002GP

2303 47n
2307 47n
2309 47n
2326 10000µ
2327 10000µ
2310 100n
2311 100n
2312 100n
2305 4700µ
2306 4700µ
2346 22n
2313 47n +27V
2314 47n
2315 47n

+Vh +53V
–Vh –53V
+Vl +28,6V
–Vl –28,6V

3350 22E
+26,6V
7252 78M05
+5,6V
+0,65V
6254 1N4148
2294 330n
2295 100n
6255 1N4002GP
6273 BZX79/C6V8
2296 1000µ
+5 +4,8V

7281 BDT61F
+27V
+14 +14V
2316 4700µ
3344 1k8
2319 1n
+15V
6299 1N4148
3345 1k2
3343 4E7
7285 BC547B
3256 10k
ST/BY = +4,8V
+20V
2317 100µ
2322 47µ
6282 BZX79/C15
2318 100µ

6302 BZX79/C15
3363 3250
6305 1N4148
3342 22k
3254
3372 22k
+9V
6277 1N4148
6276 1N4148
10E
2297 22µ
3255 47k
2298 2µ2
7284 BC548B

3382 22E
7282 BD136 –26V
7283 BC548B –14,8V
3363 3332
2328 1n –15,4V
3331 4k7
2325 22n
2329 220µ
220E 3333
3330 4k7
–14V
–6,3V
2330 1000µ
2331 100µ
6298 BZX79/C15
6301 BZX79/C20
+14 +14V

1265
LEFT
DIGITAL
ANALOG
+V +27V
+5 +4,8V
+14 +14V
STAND BY
POWER DOWN
–14 –14,5V
RIGHT
TO FRONT UNIT

2251 2µ2
3253 1k
22k 3259
2281 100p
2255 470p
0V 5
0V 6
7255 NJM4560D
8
7
–3,9V
2261 100µ
+53V +Vh
2k2 3271
47E 3357
6253 BZX79/C15V
3319 1k
2323 1µ
6313 1N4148
7257 BC556B
–3,9V
–42,9V
6251 BZX79/C10
–3,4V
3275 2k2
2269 470p
6269 1N4148
7251 BC548B
–3,9V
–3,4V
470E 3355
3309 62k
18k 3371
3269 22k
3301 2k7
2263 47p
510E 3267
0V
2259 220µ
6293 1N4148
6275 1N4148
6295 1N4148

2275 47p
+2,3V
7259 2SC2705
–52,7V
–52V
3273 470E
3277 27E
2283 1n
2341 47µ
33E 3381
–Vh –53V
2265 100p
2279 22µ

3369 3E3
3367 1E8
2271 22µ
+52V
6307 1N4002GP
10k 3293
4k7 3281
+5,2V
6259 BZX79/C2V7
3361 39E
+1,2V
6303 1N4148
6297 1N4148
4k7 3283
2k2 3285
1k5 3287
7261 2SC3419
2277 100µ
2339 1n
–0,56V
–1,2V
6261 BZX79/C3V3
–4,7V
2k2 3289
3291 3k
7265 BC548B
7267 BC558B
0V
+2m
–2m

+14V +14
4k7 3316
3315 150E
2293 22µ
6271 1N4148
+0,7V
6270 1N4148
+16,6V +17
6291 1N4148
6290 1N4148
5254 RELAY C
56k 3312
6272 1N4148
68k 3314
0V
7277 BC546B
3310 180k
0V
22k 3311
2292 150n
+0,7V
7276 BC548B
22k 3313
0V
7289 BC548B
12k 3383

+53V +Vh
1k 3334

6292 1N4148
6294 1N4148
6274 1N4148
0V
2258 220µ
510E 3266
3268 22k
3300 2k7
2262 47p
470E 3354
3308 62k
18k 3370
–3,3V
6268 1N4148
–3,9V
7250 BC548B
0V 2
0V 3
7255 NJM4560D
1
4
–3,9V
2254 470p
2260 100µ
2k2 3270
47E 3356
6252 BZX79/C15V
–Vh –53V
3318 1k
2324 1µ
6312 1N4148
7256 BC556B
–3,9V
–42,9V
6250 BZX79/C10
–3,4V
3274 2k2
2268 470p
2264 100p
2278 22µ

3368 3E3
3366 1E8
2270 22µ
+52V
6306 1N4002GP
10k 3292
4k7 3280
+5,2V
6258 BZX79/C2V7
3360 39E
+1,2V
6304 1N4148
6296 1N4148
4k7 3282
2k2 3284
1k5 3286
7260 2SC3419
2276 100µ
2338 1n
–0,56V
–1,2V
6260 BZX79/C3V3
–4,7V
2k2 3288
3290 3k
7264 BC548B
7266 BC558B
0V
+2m
–2m

2274 47p
+2,3V
7258 2SC2705
–52,7V
–52V
3272 470E
2282 1n
27E 3276
2340 47µ
33E 3380
–Vh –53V

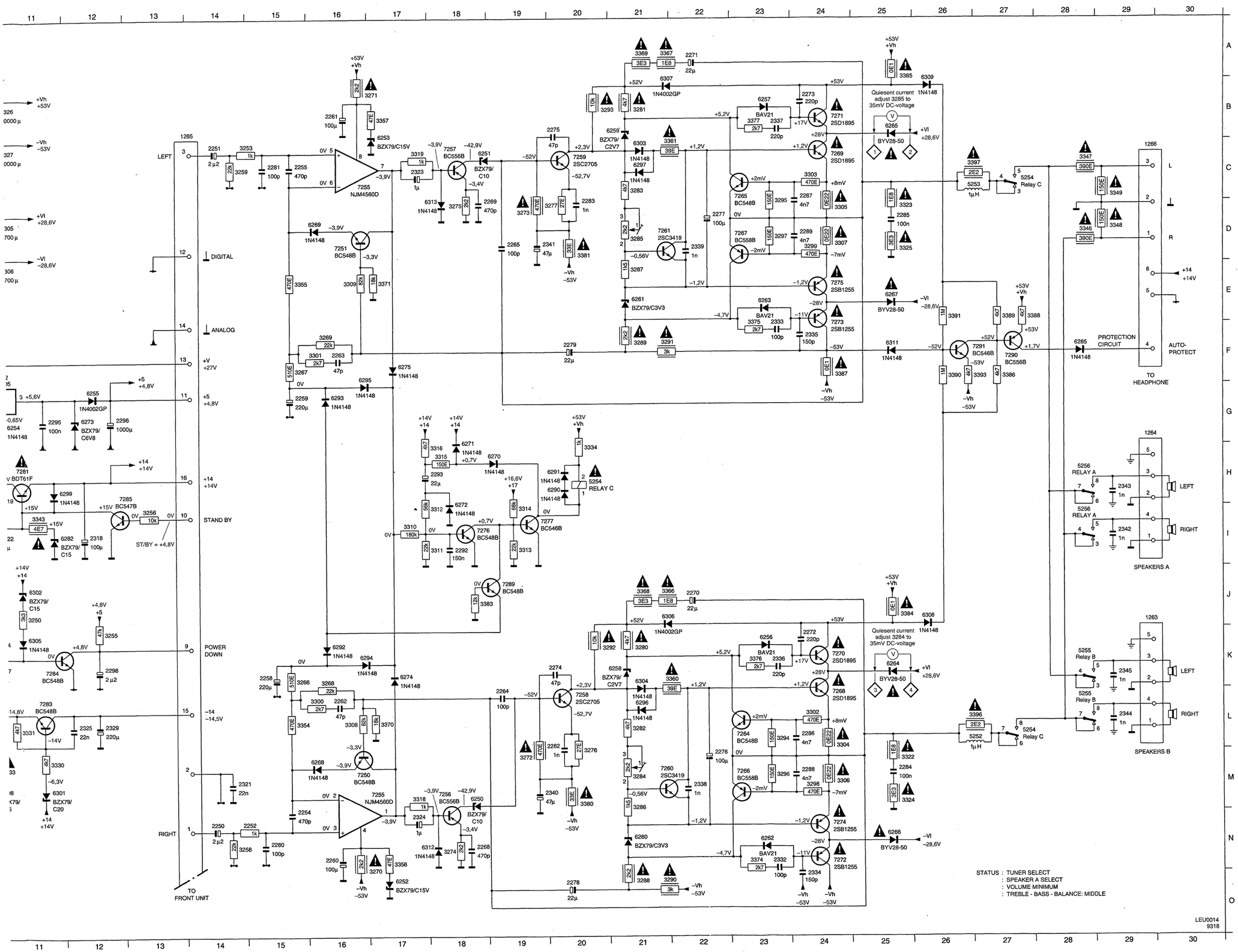
SPEAKER A
SPEAKER B
RC5
EASY LINK
EL*
TO FRONT UNIT

+53V +Vh
1k 3335
6289 1N4148
6288 1N4148
5256 RELAY A
3321 10k
7280 BC546B
SPEAKER A = ON: 7280 b = 0,6V c = 0 V

1k 3336
6287 1N4148
6286 1N4148
5255 RELAY B
3320 10k
7279 BC546B
SPEAKER B = OFF: 7279 b = 0 V c = 52 V

1262 RC5
1261 EL
1261 EL
2290 47n

+4,8V +5
47k 3257
3260 47k
3251 47k
0V
7288 BC548B
7286 BC558
3261 47k
18k 3262
47k 3263
7287 BC548B



1003a	F4	3256	I13	5255	K28
1003a	J4	3257	N3	5256	I28
1003b	I5	3258	N14	5256	H28
1250	A8	3259	C14	5256	K3
1251	B8	3260	N3	6250	M18
1252	C8	3261	N4	6251	C18
1253	D8	3262	O5	6252	O17
1259	E7	3263	N5	6253	B17
1260	G7	3266	K15	6254	G11
1261	N6	3267	F15	6255	G12
1261	M6	3268	K16	6256	K23
1262	M6	3269	F16	6257	B23
1263	J29	3270	N16	6258	K20
1264	G29	3271	B16	6259	B20
1265	B13	3272	M19	6260	N21
1265	K1	3273	D19	6261	E21
1266	C29	3274	N18	6262	N23
1267	B6	3275	D18	6263	E23
1268	B6	3276	M20	6264	K25
1525	I2	3277	D19	6265	B25
1525	D2	3280	K21	6266	N25
1526	I3	3281	B21	6267	E25
1526	E3	3282	L21	6268	M16
1527	I3	3283	C21	6269	D16
1527	E3	3284	M21	6270	H19
1528	I4	3285	D21	6271	G18
1528	E4	3286	M21	6272	H18
1531	H2	3287	E21	6273	G12
1531	D2	3288	O21	6274	K17
1532	H4	3289	F21	6275	F17
2250	N14	3290	O21	6276	K9
2251	C14	3291	F21	6277	K10
2252	N14	3292	K20	6278	F8
2254	N15	3293	B20	6279	G8
2255	C15	3294	L23	6280	F9
2258	K15	3295	D23	6281	G9
2259	G15	3296	M23	6282	I11
2260	N16	3297	D23	6283	B9
2261	B16	3298	M24	6284	D9
2262	L16	3299	D24	6285	F28
2263	F16	3300	L16	6286	L4
2264	L19	3301	F16	6287	K4
2265	D19	3302	L24	6288	L3
2268	N18	3303	C24	6289	K3
2269	D18	3304	L24	6290	H20
2270	J22	3305	D24	6291	H20
2271	A22	3306	M24	6292	K16
2272	K24	3307	D24	6293	G16
2273	B24	3308	L16	6294	K16
2274	K20	3309	E16	6295	F16
2275	B20	3310	I17	6296	L21
2276	M22	3311	I18	6297	C21
2277	D22	3312	I18	6298	M10
2278	O20	3313	I19	6299	H11
2279	F20	3314	I19	6301	M11
2280	N15	3315	H18	6302	J11
2281	C15	3316	H18	6303	C21
2282	L19	3318	M17	6304	K21
2283	D20	3319	C17	6305	K11
2284	M25	3320	L4	6306	J21
2285	D25	3321	L3	6307	B21
2286	L24	3322	M25	6308	J26
2287	C24	3323	D25	6309	B26
2288	M24	3324	M25	6311	F25
2289	D24	3325	D25	6312	N17
2290	O6	3330	M11	6313	D17
2292	I18	3331	L11	7250	M16
2293	H18	3332	L9	7251	D16
2294	G10	3333	M10	7252	F10
2295	G11	3334	H20	7255	C16
2296	G12	3335	K3	7255	M17
2297	K10	3336	K5	7256	M18
2298	K12	3342	K10	7257	C18
2303	B8	3343	I11	7258	L20
2305	D11	3344	I10	7259	C20
2306	E11	3345	I10	7260	M21
2307	A10	3346	D28	7261	D21
2309	B9	3347	C28	7264	L23
2310	C10	3348	D29	7265	C23
2311	D8	3349	C29	7266	M23
2312	D9	3350	G9	7267	D23
2313	F9	3354	L15	7268	L24
2314	F8	3355	E15	7269	C24
2315	F8	3356	N17	7270	K24
2316	H9	3357	B17	7271	B24
2317	I10	3360	K21	7272	N24
2318	I12	3361	C21	7273	F24
2319	H10	3366	J21	7274	N24
2321	M14	3367	A21	7275	E24
2322	I10	3368	J21	7276	I18
2323	C17	3369	A21	7277	I19
2324	N17	3370	L17	7279	L5
2325	L12	3371	E17	7280	L3
2326	B11	3372	K9	7281	H11
2327	C11	3374	N23	7282	L10
2328	L10	3375	F23	7283	L11
2329	L12	3376	K23	7284	K11
2330	M9	3377	B23	7285	H12
2331	M9	3380	M20	7286	N4
2332	N23	3381	D20	7287	N5
2333	F23	3382	L9	7288	N3
2334	O24	3383	J18	7289	J19
2335	F24	3384	J25	7290	F27
2336	K23	3385	A25	7291	F27
2337	B23	3386	F27	8526	I6
2338	M22	3387	F24	8527	I6
2339	D22	3388	E27	8528	I6
2340	M19	3389	E27	8529	H6
2341	D19	3390	F26	8530	H6
2342	I29	3391	E26		
2343	H29	3393	F27		
2344	L29	3396	L26		
2345	K29	3397	C26		
2346	E10	5001	B5		
2525	H2	5252	L26		
2525	D2	5253	C26		
3250	J11	5254	H20		
3251	N2	5254	C27		
3253	C14	5254	L27		
3254	K10	5255	K5		
3255	K12	5255	L28		

POWER UNIT

+14V +14
−14,5V −14
⊥
+27V +V
DIG
+4,8V +5
0V ST/BY
+4,8V POWER DOWN
RC5
EASY LINK
EL*
SPEAKER A
SPEAKER B
L
⊥
R

2 ⊥ — 1 = 21,5V~
2 ⊥ — 3 = 21,5V~
9/10 ⊥ — 11/12 = 21,5V~
9/10 ⊥ — 7/8 = 21,5V~
9/10 ⊥ — 4/5/6 = 39,5V~
9/10 ⊥ — 13/14/15 = 39,5V~

7284
e = ⊥
b = 0V
c = +4,8V

7280 Speaker A = ON
e = ⊥
b = +0,6V
c = 0V

7279 Speaker B = OFF
e = ⊥
b = 0V
c = +52V

SPEAKERS A
SPEAKERS B
RELAY A
RELAY B
ANALOGE
RELAY C
ESI BUS
RC5

7289
e = 0V
b = 0V
c = +0,7V

7277
e = ⊥
b = +0,7V
c = 0V

7250
e = −3,9V
b = −3,3V
c = −3,9V

7256
e = −3,4V
b = −3,9V
c = −42,9V

7255
1 = −3,9V 5 = 0V
2 = 0V 6 = 0V
3 = 0V 7 = −3,9V
4 = −16,8V 8 = +16,6V

7251
e = −3,9V
b = −3,3V
c = −3,9V

7276
e = ⊥
b = 0V
c = +0,7V

7257
e = −3,4V
b = −3,9V
c = −42,9V

7258
e = −52,7V
b = −52V
c = +2,3V

7265
e = 0V
b = +2mV
c = +5,2V

7267
e = 0V
b = −2mV
c = −4,7V

7288
e = ⊥
b = 0V
c = +4,8V

7286
e = +4,8V
b = +4,8V
c = 0V

7252
1 = +26,6V
2 = +0,65V
3 = +5,6V

7287
e = ⊥
b = 0V
c = +4,8V

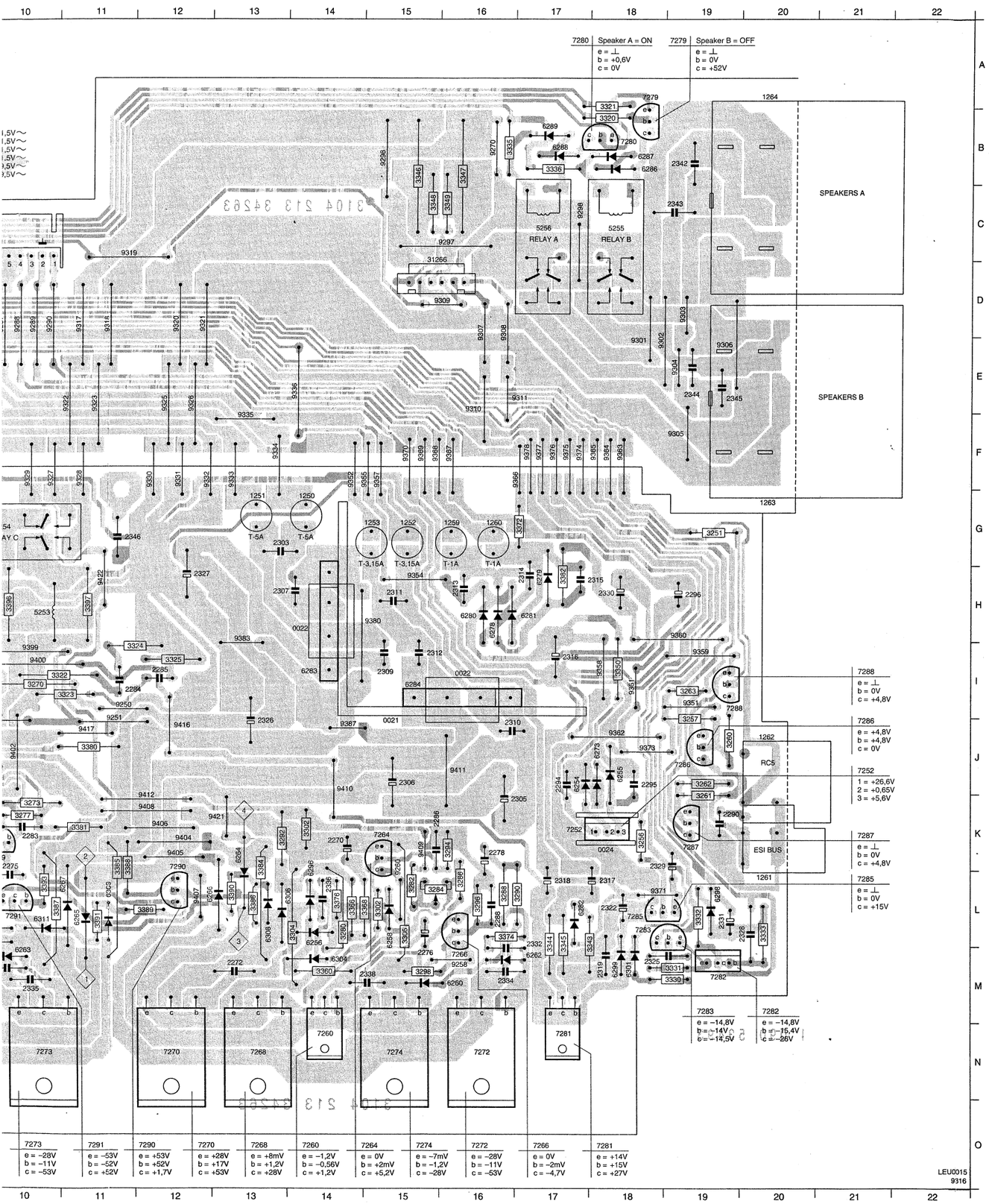
7285
e = ⊥
b = 0V
c = +15V

7283
e = −14,8V
b = −14V
c = −14,5V

7282
e = −14,8V
b = −15,4V
c = −26V

7271 e = +28V b = +17V c = +53V
7269 e = +8mV b = +1,2V c = +28V
7259 e = −52,7V b = −52V c = +2,3V
7261 e = −1,2V b = −0,56V c = +1,2V
7275 e = −7mV b = −1,2V c = −28V
7273 e = −28V b = −11V c = −53V
7291 e = −53V b = −52V c = +52V
7290 e = +53V b = +52V c = +1,7V
7270 e = +28V b = +17V c = +53V
7268 e = +8mV b = +1,2V c = +28V
7260 e = −1,2V b = −0,56V c = +1,2V
7264 e = 0V b = +2mV c = +5,2V
7274 e = −7mV b = −1,2V c = −28V
7272 e = −28V b = −11V c = −53V
7266 e = 0V b = −2mV c = −4,7V
7281 e = +14V b = +15V c = +27V

LEU0015
9316



0021	J15	3275	J8	6271	H9	9319	C11
0022	H14	3276	J8	6272	H8	9320	D12
0022	I16	3277	K10	6273	J18	9321	D12
0024	K18	3280	L14	6274	G6	9322	E11
1250	G14	3281	L6	6275	G6	9323	E11
1251	G13	3282	L15	6276	D6	9324	D9
1252	G15	3283	L8	6277	D6	9325	E12
1253	G15	3284	L15	6278	H16	9326	E12
1259	G16	3285	K8	6279	H17	9327	F10
1260	G16	3286	L16	6280	H16	9328	F11
1261	L20	3287	L8	6281	H17	9329	F10
1262	J20	3288	L16	6282	L17	9330	F12
1263	G20	3289	L9	6283	I14	9331	F12
1264	A20	3290	L17	6284	I15	9332	F12
1265	C5	3291	L9	6286	B18	9333	F13
1267	E4	3292	K13	6287	B18	9334	F13
1268	C9	3293	L6	6288	B17	9335	F13
2250	H5	3294	K16	6289	B17	9336	E14
2251	J5	3295	K7	6290	G9	9337	K9
2254	H6	3296	L16	6291	G8	9340	G5
2255	J6	3297	L7	6292	G6	9341	G5
2258	H6	3298	M15	6293	G6	9342	G4
2259	J5	3299	L9	6294	G6	9343	G4
2260	I8	3300	G7	6295	G6	9344	G4
2261	J9	3301	J6	6296	L14	9345	G4
2262	G7	3302	K14	6297	L7	9346	G3
2263	K6	3302	L15	6298	L19	9347	G3
2264	K8	3303	L7	6299	M18	9351	I19
2265	K9	3304	L14	6301	M18	9352	F14
2268	J8	3305	M7	6302	B7	9354	H15
2269	J8	3306	L15	6303	M7	9355	F15
2270	K14	3307	L8	6304	M14	9357	F15
2271	K6	3308	H7	6305	C6	9358	I18
2272	M13	3309	J7	6306	L14	9359	I19
2273	M6	3310	G7	6307	M5	9360	H19
2274	K9	3311	H8	6308	L13	9361	I18
2275	K10	3312	H8	6309	L11	9362	J18
2276	M15	3313	H8	6311	L10	9363	F18
2277	L9	3314	I8	7250	H7	9364	F18
2278	K16	3315	H9	7251	J7	9365	F18
2279	L9	3316	H8	7252	K17	9366	F17
2280	H6	3318	I7	7255	I6	9367	F16
2281	J6	3319	K6	7256	I7	9368	F15
2282	J8	3320	B18	7257	J7	9369	F15
2283	K10	3321	B18	7258	K9	9370	F15
2284	I11	3322	I10	7259	K10	9371	L18
2285	I12	3323	I10	7260	N14	9373	J18
2286	K16	3324	I11	7261	N8	9374	F17
2287	K7	3325	I12	7264	K15	9375	F17
2288	L16	3330	M19	7265	L6	9376	F17
2289	L7	3331	M19	7266	M16	9377	F17
2290	K19	3332	L19	7267	K8	9378	F17
2292	H8	3333	L20	7268	N13	9380	H15
2293	G8	3334	G9	7269	N7	9383	H13
2294	J17	3335	B16	7270	N12	9387	J14
2295	J18	3336	B17	7271	N6	9388	I6
2296	H19	3342	C6	7272	N16	9389	I7
2297	B6	3343	M18	7273	N10	9390	I7
2298	B5	3344	M17	7274	N15	9391	M6
2303	G13	3345	M17	7275	N9	9393	L8
2305	K16	3346	B15	7276	I8	9394	L9
2306	J15	3347	B16	7277	G7	9396	H9
2307	H13	3348	C15	7279	A18	9397	I9
2309	I15	3349	C16	7280	B18	9399	I10
2310	J16	3350	I18	7281	N17	9400	I10
2311	H15	3354	H7	7282	M19	9401	J10
2312	I15	3355	J6	7283	L18	9402	J10
2313	H16	3356	I9	7284	C6	9403	J9
2314	H17	3357	I9	7285	L18	9404	K12
2315	H17	3360	M14	7286	J19	9405	K12
2316	I17	3361	M7	7287	K19	9406	K12
2317	L18	3366	L14	7288	I19	9407	L12
2318	L17	3367	K6	7289	G7	9408	K12
2319	M18	3368	L15	7290	K12	9409	K15
2321	G6	3369	K5	7291	L10	9410	J14
2322	L18	3370	H6	9250	I11	9411	J16
2323	K7	3371	J7	9251	J11	9412	K12
2324	H7	3372	G17	9258	M16	9416	J12
2325	M18	3374	L16	9259	K9	9417	J11
2326	J13	3375	M9	9260	L15	9421	K12
2327	H12	3376	L14	9261	L6	9422	H11
2328	L20	3377	L6	9270	B16	31266	D15
2329	K18	3380	J11	9275	B5		
2330	H18	3381	K11	9276	B7		
2331	L19	3382	H17	9277	B7		
2332	L17	3383	G8	9278	D7		
2333	M10	3384	L13	9279	E7		
2334	M16	3385	L11	9280	D8		
2335	M10	3386	L13	9281	D8		
2336	L14	3387	L10	9282	D8		
2337	L6	3388	L11	9283	D9		
2338	M14	3389	L12	9284	D9		
2339	M8	3390	L13	9285	D9		
2340	J8	3391	L11	9286	D10		
2341	J9	3393	L10	9287	D10		
2342	B19	3396	H10	9288	D10		
2343	C19	3397	H11	9289	D10		
2344	E19	5252	H9	9290	D10		
2345	E19	5253	H10	9291	F6		
2346	G11	5254	G10	9292	F6		
2350	C7	5255	C18	9293	F6		
2351	G19	5256	C17	9294	F9		
3252	I6	6250	J7	9296	B15		
3253	I6	6251	K8	9297	C15		
3254	C6	6252	I9	9298	C17		
3255	B5	6253	I9	9301	E18		
3256	K18	6254	J17	9302	E18		
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3258	I6	6256	L14	9304	E19		
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3262	J19	6260	M16	9308	E16		
3263	I19	6261	M9	9309	D15		
3266	H6	6262	M17	9310	E16		
3267	J6	6263	M10	9311	E16		
3268	G7	6264	K13	9312	D7		
3269	K6	6265	L11	9313	D8		
3270	I10	6266	L13	9314	D8		
3271	J9	6267	L11	9315	F8		
3272	J8	6268	H7	9316	F9		
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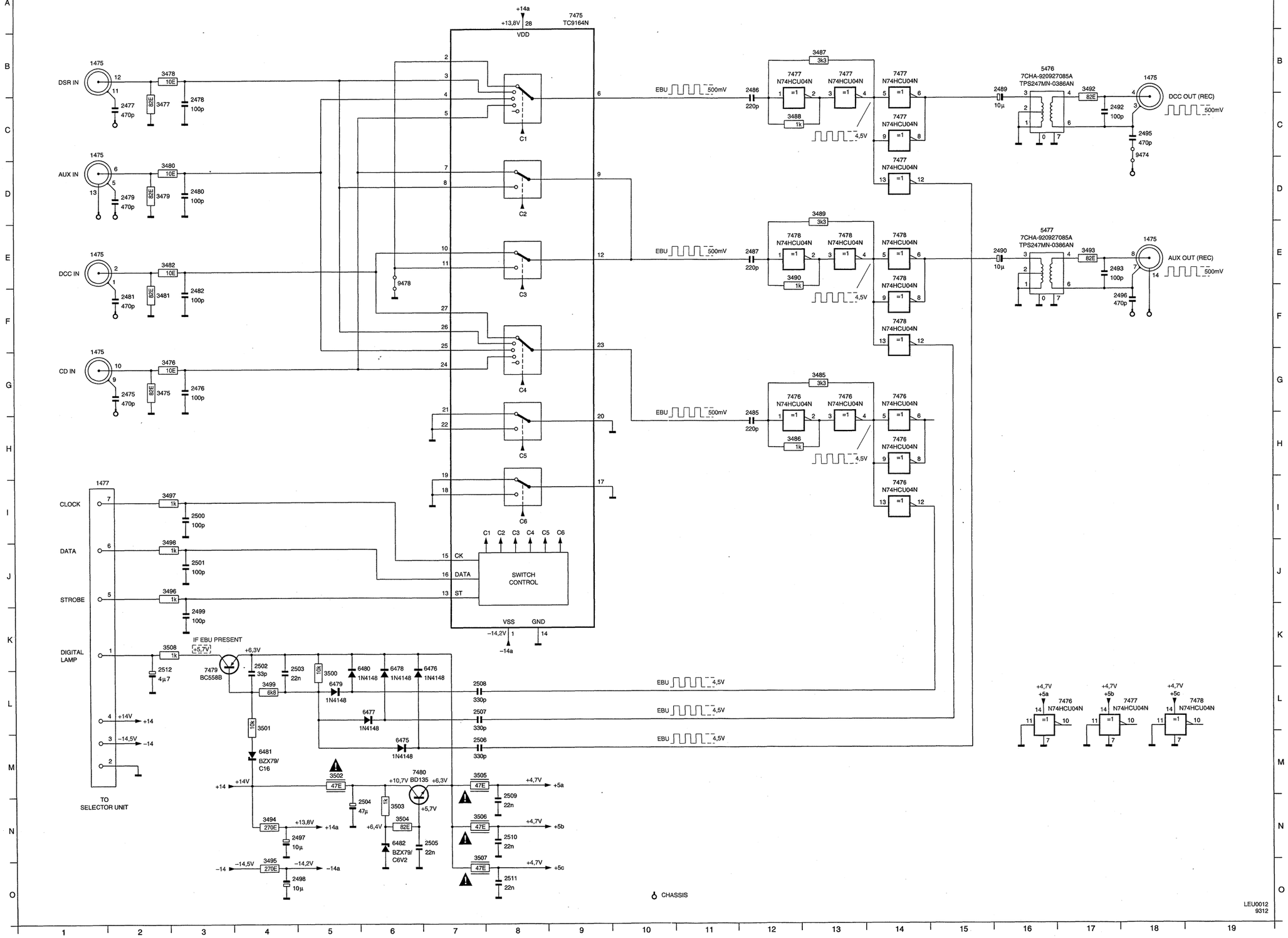

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2476	G3	
2477	C2	
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2481	F2	
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2485	H12	
2486	B12	
2487	E12	
2489	B16	
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2492	C17	
2493	E17	
2495	C18	
2496	F18	
2497	N4	
2498	O4	
2499	K3	
2500	I3	
2501	J3	
2502	K4	
2503	L4	
2504	N5	
2505	N7	
2506	M7	
2507	L7	
2508	L7	
2509	N8	
2510	N8	
2511	O8	
2512	L2	
3475	G2	
3476	G2	
3477	C2	
3478	B2	
3479	D2	
3480	D2	
3481	F2	
3482	E2	
3485	G13	
3486	H12	
3487	B13	
3488	C12	
3489	D13	
3490	E12	
3492	B17	
3493	E17	
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3495	O4	
3496	J2	
3497	I2	
3498	J2	
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3503	N6	
3504	N6	
3505	M7	
3506	N7	
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6476	L7	
6477	L6	
6478	L6	
6479	L5	
6480	L5	
6481	M4	
6482	N6	
7475	A9	
7476	G12	
7476	G13	
7476	I14	
7476	H14	
7476	G14	
7476	L17	
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7477	B13	
7477	D14	
7477	C14	
7477	B14	
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7478	F14	
7478	E14	
7478	E14	
7478	L19	
7479	L3	
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9474	D18	
9478	E6	

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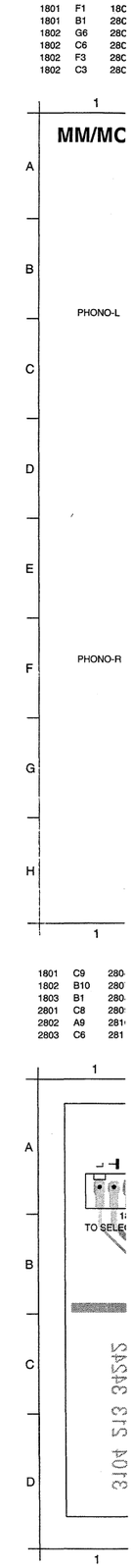

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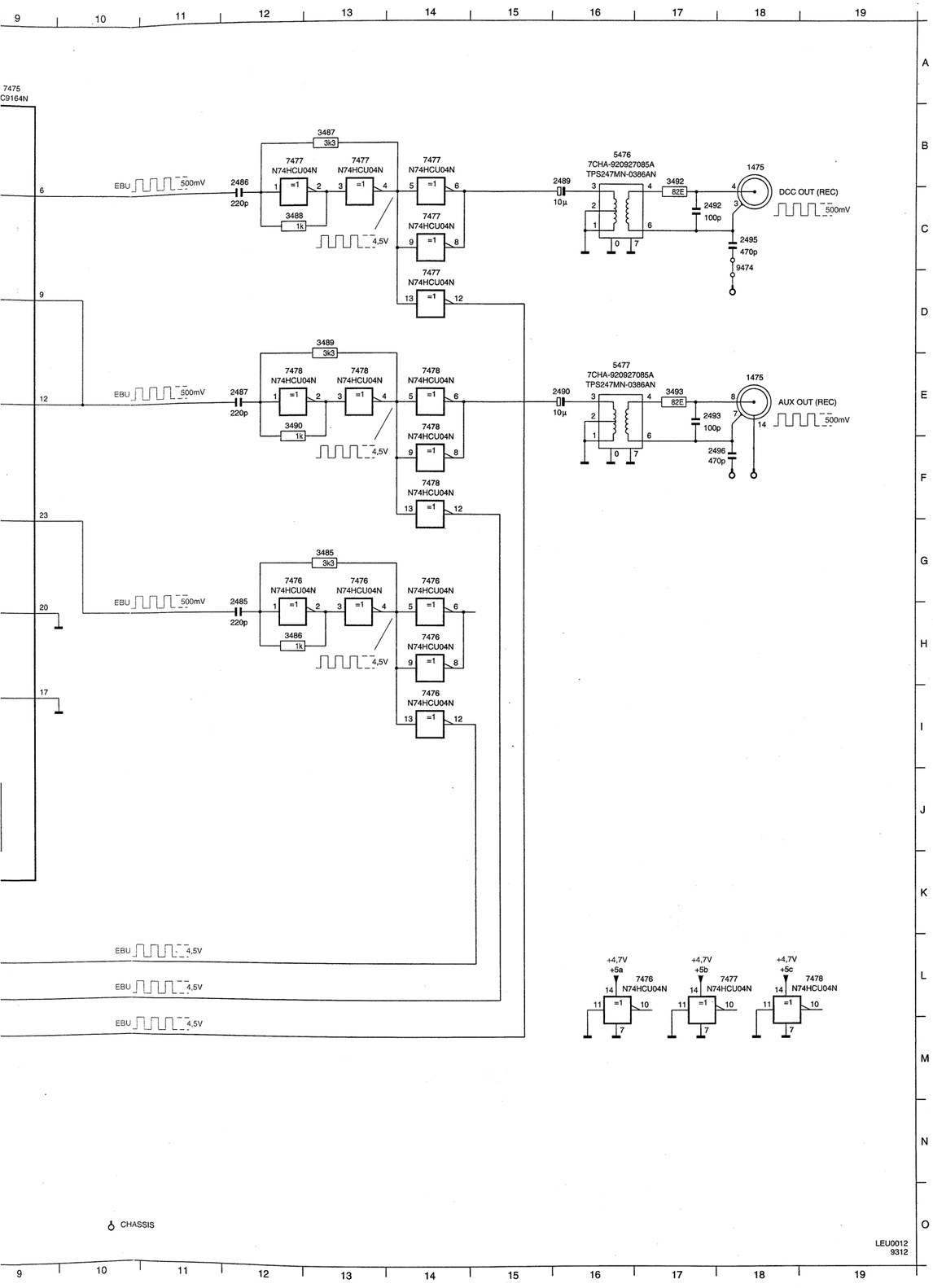

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		2485	H12	2497	N4	2503	L4	2510	N8	3480	D2	3488	C12	3495	O4	3502	M5	5477	E16	7476	G12	9478	E6
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1801	F1	1803	A10	2808	E5	2814	E6	2820	E8	2826	H9	3804	G3	3810	E5	3816	G6	3822	F7	3830	G9	7801	B4
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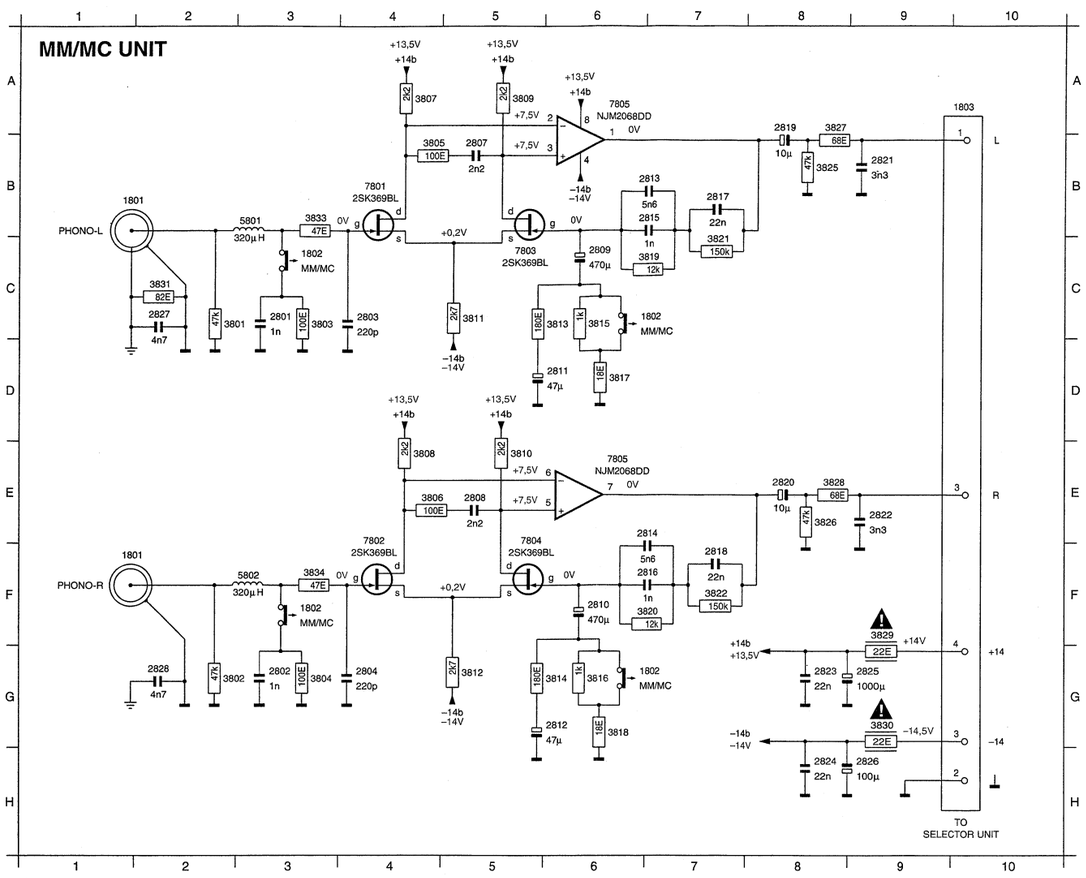

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2802	A9	2810	A7	2816	A6	2822	A3	2828	C9	3806	B6	3812	B7	3818	A8	3826	B4	3833	B8	7803	D6	9804	C7	9810	C4
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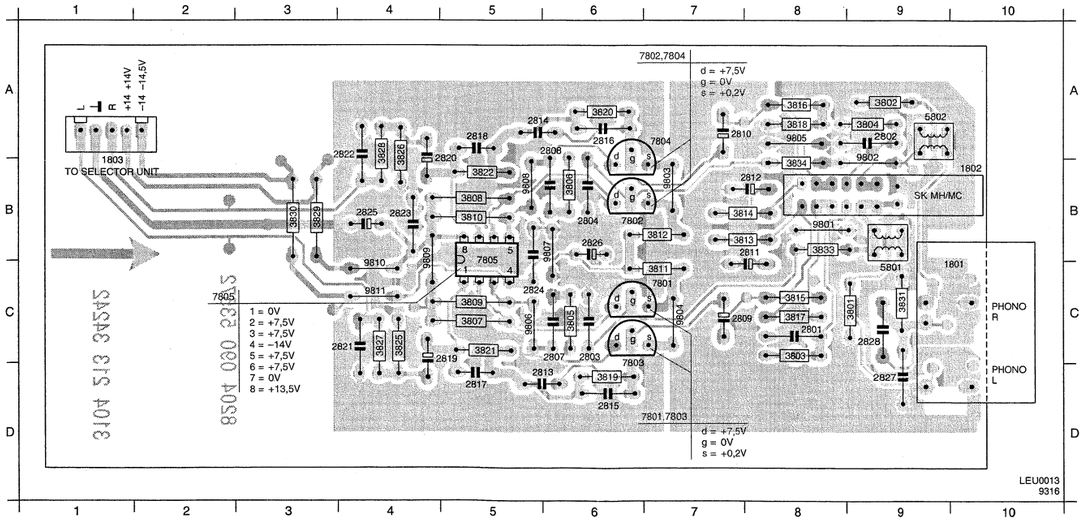

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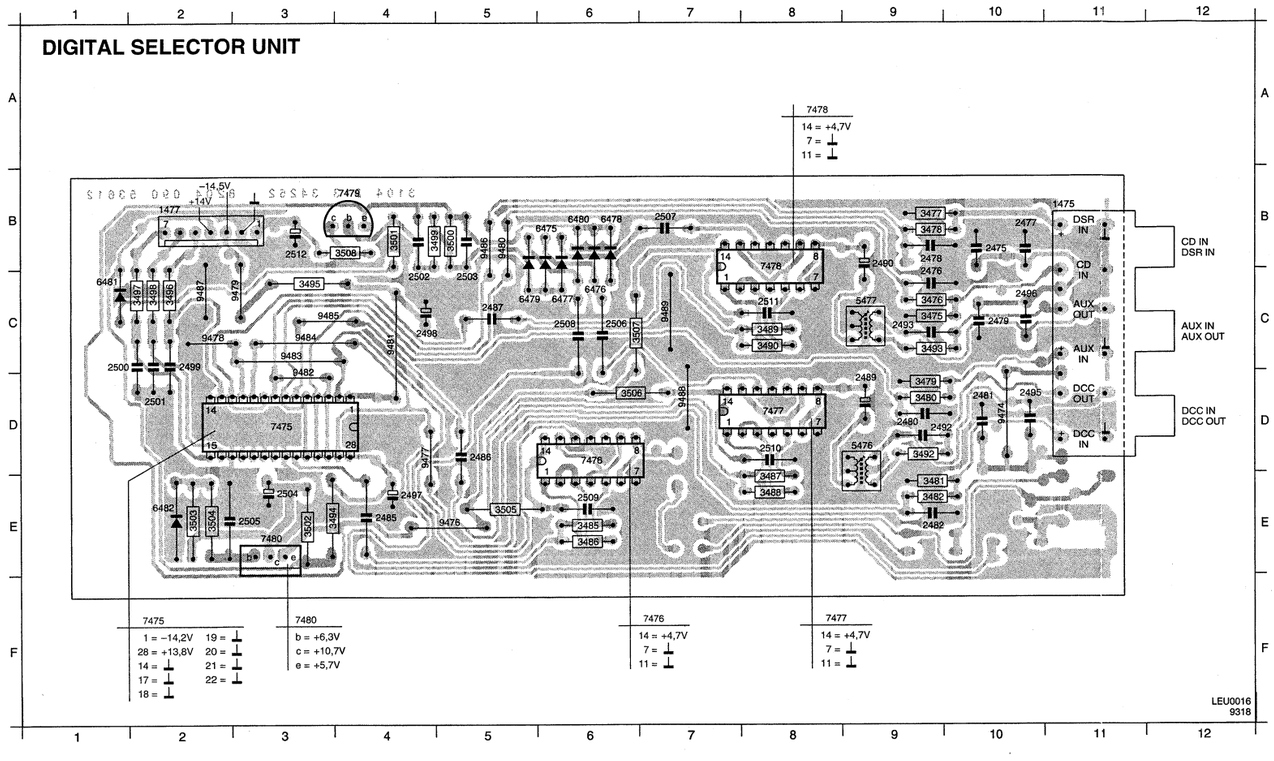

AC OUTLET

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1528	D2	8527	C1	8530	B3	9529	F3	9535	E3	A528	E3	B529	B2		
1531	E2	8527	I1	8530	I1	9530	F3	9536	E3	A529	E3	B530	B2		
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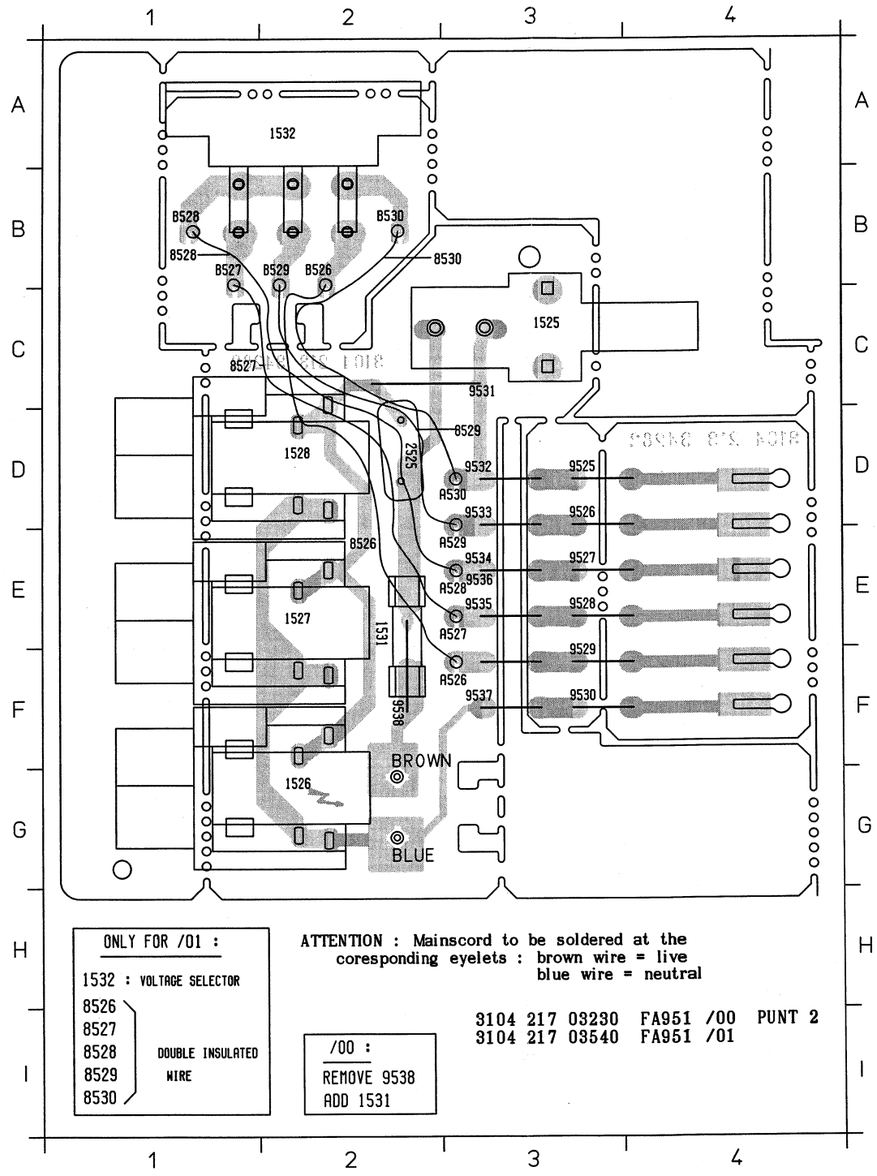
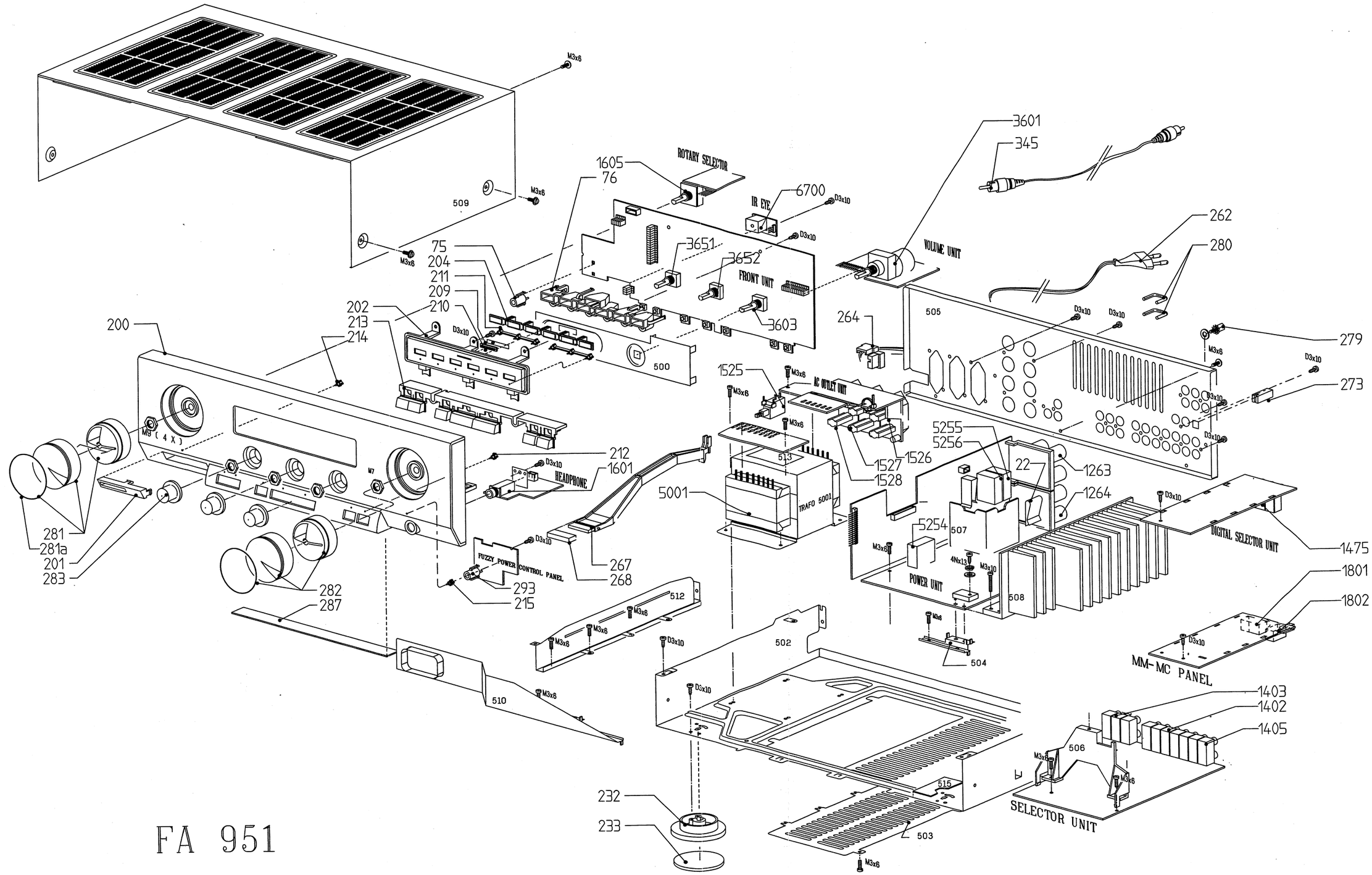


EXPLODED VIEW



FA 951

MECHANICAL PARTS

	4822 218 10514	REMOTE RH6641
	4822 736 21794	IFU FA951
22	4822 492 70583	CLAMPING SPRING
75	4822 255 41247	LEDHOLDER
76	4822 466 70733	LIGHT SCREEN
200	4822 426 51666	FRONT ASSY
201	4822 450 61831	IR-WINDOW
202	4822 454 12791	PLATE ORNAMENTAL
204	4822 450 61832	WINDOW
209	4822 466 70734	DIFFUSOR
210	4822 130 91065	DIG.REFLECTOR
211	4822 380 20424	REFLECTOR
212	4822 380 20425	LED REFLECTOR
213	4822 410 61698	BUTTON ASSY
214	4822 380 20425	LED REFLECTOR
215	4822 380 20425	LED REFLECTOR
232	4822 462 41888	FOOT
233	4822 462 41887	FOOT VELT
262	4822 321 10853	MAINS CORD
264	4822 532 60948	BUSHING
267	4822 404 21194	BRACKET
268	4822 462 71808	CAP POWER BRACKET
273	4822 413 31586	PHONO SEL.BUTTON
279	4822 502 13921	PHONO GND SCREW
280	4822 268 90449	JUMPER PLUG
281	4822 410 61699	KNOB SOURCE SEL.
281A	4822 532 21449	RUBBER RING
282	4822 413 51399	VOLUME KNOP ASSY
283	4822 413 41696	KNOB ASSY
287	4822 426 60621	STRIP
293	4822 255 41247	LEDHOLDER
345	4822 321 61478	CABLE
1263	4822 290 81479	L.S. CONNECTOR
1264	4822 290 81479	L.S. CONNECTOR
1402	4822 267 31451	PIN JACK
1403	4822 267 31449	PIN JACK
1405	4822 267 31449	PIN JACK
1475	4822 267 20453	PIN JACK
1525	4822 276 13224	POWER SWITCH
1526	4822 265 20594	MAINS OUTLET
1527	4822 265 20594	MAINS OUTLET
1528	4822 265 20594	MAINS OUTLET
1601	4822 267 31453	SOCKET
1605	4822 273 10237	ROTARY SWITCH
1801	4822 267 20452	PIN JACK
1802	4822 276 13412	MM-MC SWITCH
3601	4822 101 21175	50k POTM
3603	4822 101 21176	100k POTM
3651	4822 101 21177	20k POTM
3652	4822 101 21177	20k POTM
5001	4822 146 31237	MAINS TRAFO
5001	4822 146 31265	MAINS TRAFO only/01S
5254	4822 280 60567	RELAY
5255	4822 280 60567	RELAY
5256	4822 280 60567	RELAY
6700	4822 214 52009	IR EYE

POWER UNIT

MISCELLANEOUS

1250	4822 071 55002⚠	Fuse 5A
1251	4822 071 55002⚠	Fuse 5A
1252	4822 071 53152⚠	Fuse 3.15A
1253	4822 071 53152⚠	Fuse 3.15A
1259	4822 071 51002⚠	Fuse 1A
1260	4822 071 51002⚠	Fuse 1A
1261	4822 265 20542	Pin jack
1262	4822 265 20543	Pin jack
1263	4822 290 81479	L.S. Connector
1264	4822 290 81479	L.S. Connector
1265	4822 265 41325	Connector 16P
1267	4822 267 51239	Connector 15P

CAPACITORS

2250	4822 124 40244	2,2µF 20% 63V
2251	4822 124 40244	2,2µF 20% 63V
2254	4822 122 33519	470pF 10% 50V
2255	4822 122 33519	470pF 10% 50V
2258	4822 124 40196	220µF 20% 16V
2259	4822 124 40196	220µF 20% 16V
2260	4822 124 41643	100µF 20% 16V
2261	4822 124 41643	100µF 20% 16V
2262	4822 122 33848	47pF 5%SL 50V
2263	4822 122 33848	47pF 5%SL 50V
2264	4822 122 33308	100pF 10% 500V
2265	4822 122 33308	100pF 10% 500V
2268	4822 122 33519	470pF 10% 50V
2269	4822 122 33519	470pF 10% 50V
2270	4822 124 80562	22µF 20% 160V
2271	4822 124 80562	22µF 20% 160V
2272	4822 122 10466	220pF 10% 50V
2273	4822 122 10466	220pF 10% 50V
2274	4822 126 12017	47pF NPO 500V
2275	4822 126 12017	47pF NPO 500V
2276	4822 124 41584	100µF 20% 10V
2277	4822 124 41584	100µF 20% 10V
2278	4822 124 41596	22µF 20% 50V
2279	4822 124 41596	22µF 20% 50V
2280	4822 122 33195	100pF 10% 50V
2281	4822 122 33195	100pF 10% 50V
2282	4822 122 33197	1nF 10% 50V
2283	4822 122 33197	1nF 10% 50V
2284	4822 121 42007	100nF 10% 100V
2285	4822 121 42007	100nF 10% 100V
2286	4822 126 11714	4,7nF 20%
2287	4822 126 11714	4,7nF 20%
2288	4822 126 11714	4,7nF 20%
2289	4822 126 11714	4,7nF 20%
2290	4822 121 43526	47nF 5% 100V
2292	4822 121 41854	150nF 5% 63V
2293	5322 124 41431	22µF 20% 35V
2294	5322 121 42661	330nF 5% 63V
2295	5322 121 42386	100nF 5% 63V
2296	4822 124 40201	1000µF 20% 16V
2297	5322 124 41431	22µF 20% 35V
2298	4822 124 40244	2,2µF 20% 63V
2303	4822 121 43875	47nF 5% 250V
2305	4822 124 80415	4700µF 20% 50V
2306	4822 124 80415	4700µF 20% 50V
2307	4822 121 43875	47nF 5% 250V
2309	4822 121 43875	47nF 5% 250V
2310	4822 121 42007	100nF 10% 100V
2311	4822 121 42007	100nF 10% 100V
2312	4822 121 42007	100nF 10% 100V
2313	4822 121 41984	47nF 10% 400V
2314	4822 121 41984	47nF 10% 400V
2315	4822 121 41984	47nF 10% 400V
2316	4822 124 80563	4700µF 20% 35V
2317	5322 124 21189	100µF 20% 40V
2318	5322 124 21189	100µF 20% 40V
2319	4822 122 33197	1nF 10% 50V
2321	4822 126 11585	22nF +80-20% 25V
2322	4822 124 40433	47µF 20% 25V
2323	4822 124 40242	1µF 20% 63V
2324	4822 124 40242	1µF 20% 63V
2325	4822 126 11585	22nF +80-20% 25V
2326	4822 124 80565	1000µF 20% 63V
2327	4822 124 80565	1000µF 20% 63V
2328	4822 122 33197	1nF 10% 50V
2329	4822 124 22263	220µF 20% 25V
2330	5322 124 22229	1000µF 20% 35V
2331	4822 124 41525	100µF 20% 25V
2332	4822 122 33195	100pF 10% 50V
2333	4822 122 33195	100pF 10% 50V
2334	4822 122 33849	150pF 10%Y5P 50V
2335	4822 122 33849	150pF 10%Y5P 50V
2336	4822 122 10466	220pF 10% 50V
2337	4822 122 10466	220pF 10% 50V
2338	4822 122 33197	1nF 10% 50V
2339	4822 122 33197	1nF 10% 50V
2340	4822 124 40771	47µF 20% 100V
2341	4822 124 40771	47µF 20% 100V
2342	4822 122 33197	1nF 10% 50V
2343	4822 122 33197	1nF 10% 50V
2344	4822 122 33197	1nF 10% 50V
2345	4822 122 33197	1nF 10% 50V
2346	4822 126 11585	22nF +80-20% 25V

RESISTORS

3250	4822 116 52269	3k3 5% 0,5W
3251	4822 116 52284	47k 5% 0,5W
3252	4822 050 11002	1k 1% 0,4W
3253	4822 050 11002	1k 1% 0,4W
3254	4822 116 52257	22k 5% 0,5W
3255	4822 116 52284	47k 5% 0,5W
3256	4822 116 52233	10k 5% 0,5W
3257	4822 116 52284	47k 5% 0,5W
3258	4822 116 52257	22k 5% 0,5W
3259	4822 116 52257	22k 5% 0,5W
3260	4822 116 52284	47k 5% 0,5W
3261	4822 116 52284	47k 5% 0,5W
3262	4822 116 52251	18k 5% 0,5W
3263	4822 116 52284	47k 5% 0,5W
3266	4822 116 52225	510Ω 5% 0,5W
3267	4822 116 52225	510Ω 5% 0,5W

3268	4822 116 52257	22k 5% 0,5W
3269	4822 116 52257	22k 5% 0,5W
3270	4822 053 11222▲	2k2 5% 2W
3271	4822 053 11222▲	2k2 5% 2W
3272	4822 052 10471▲	470Ω 5% 0,33W
3273	4822 052 10471▲	470Ω 5% 0,33W
3274	4822 116 52256	2k2 5% 0,5W
3275	4822 116 52256	2k2 5% 0,5W
3276	4822 116 52188	27Ω 5% 0,5W
3277	4822 116 52188	27Ω 5% 0,5W
3280	4822 053 11472▲	4k7 5% 2W
3281	4822 053 11472▲	4k7 5% 2W
3282	4822 116 52283	4k7 5% 0,5W
3283	4822 116 52283	4k7 5% 0,5W
3284	4822 100 11391	330Ω 30%lin 0,1W
3285	4822 100 11391	330Ω 30%lin 0,1W
3286	4822 116 52243	1k5 5% 0,5W
3287	4822 116 52243	1k5 5% 0,5W
3288	4822 053 10222▲	2k2 5% 1W
3289	4822 053 10222▲	2k2 5% 1W
3290	4822 053 10302▲	3k 5% 1W
3291	4822 053 10302▲	3k 5% 1W
3292	4822 053 10103▲	10k 5% 1W
3293	4822 053 10103▲	10k 5% 1W
3294	4822 116 52211	150Ω 5% 0,5W
3295	4822 116 52211	150Ω 5% 0,5W
3296	4822 116 52211	150Ω 5% 0,5W
3297	4822 116 52211	150Ω 5% 0,5W
3298	4822 116 52224	470Ω 5% 0,5W
3299	4822 116 52224	470Ω 5% 0,5W
3300	4822 116 52263	2k7 5% 0,5W
3301	4822 116 52263	2k7 5% 0,5W
3302	4822 116 52224	470Ω 5% 0,5W
3303	4822 116 52224	470Ω 5% 0,5W
3304	4822 113 80632▲	0Ω22 5% 4W
3305	4822 113 80632▲	0Ω22 5% 4W
3306	4822 113 80632▲	0Ω22 5% 4W
3307	4822 113 80632▲	0Ω22 5% 4W
3308	4822 116 52304	82k 5% 0,5W
3309	4822 116 52304	82k 5% 0,5W
3310	4822 116 52252	180k 5% 0,5W
3311	4822 116 52257	22k 5% 0,5W
3312	4822 116 52291	56k 5% 0,5W
3313	4822 116 52257	22k 5% 0,5W
3314	4822 116 52297	68k 5% 0,5W
3315	4822 116 52211	150Ω 5% 0,5W
3316	4822 116 52283	4k7 5% 0,5W
3318	4822 050 11002	1k 1% 0,4W
3319	4822 050 11002	1k 1% 0,4W
3320	4822 116 52233	10k 5% 0,5W
3321	4822 116 52233	10k 5% 0,5W
3322	4822 052 10188▲	1Ω8 5% 0,33W
3323	4822 052 10188▲	1Ω8 5% 0,33W
3324	4822 052 10338▲	3Ω3 5% 0,33W
3325	4822 052 10338▲	3Ω3 5% 0,33W
3330	4822 116 52283	4k7 5% 0,5W
3331	4822 116 52283	4k7 5% 0,5W
3332	4822 050 23302	3k3 1% 0,6W
3333	4822 052 10221▲	220Ω 5% 0,33W
3334	4822 050 21002	1k 1% 0,6W
3335	4822 050 21002	1k 1% 0,6W
3336	4822 050 21002	1k 1% 0,6W
3342	4822 052 10109▲	10Ω 5% 0,33W
3343	4822 052 10478▲	4Ω7 5% 0,33W
3344	4822 050 21802▲	1k8 1% 0,6W
3345	4822 050 21202▲	1k2 1% 0,6W
3346	4822 053 12391▲	390Ω 5% 3W
3347	4822 053 12391▲	390Ω 5% 3W
3348	4822 050 21501▲	150Ω 1% 0,6W
3349	4822 050 21501▲	150Ω 1% 0,6W
3350	4822 052 10229▲	22Ω 5% 0,33W
3354	4822 116 52224	470Ω 5% 0,5W
3355	4822 116 52224	470Ω 5% 0,5W
3356	4822 116 52195	47Ω 5% 0,5W
3357	4822 116 52195	47Ω 5% 0,5W
3360	4822 052 10399▲	39Ω 5% 0,33W
3361	4822 052 10399▲	39Ω 5% 0,33W
3366	4822 052 10188▲	1Ω8 5% 0,33W
3367	4822 052 10188▲	1Ω8 5% 0,33W
3368	4822 052 10338▲	3Ω3 5% 0,33W
3369	4822 052 10338▲	3Ω3 5% 0,33W
3370	4822 116 52251	18k 5% 0,5W
3371	4822 116 52251	18k 5% 0,5W
3372	4822 116 52257	22k 5% 0,5W
3374	4822 116 52263	2k7 5% 0,5W
3375	4822 116 52263	2k7 5% 0,5W
3376	4822 116 52263	2k7 5% 0,5W
3377	4822 116 52263	2k7 5% 0,5W
3380	4822 052 10339▲	33Ω 5% 0,33W
3381	4822 052 10339▲	33Ω 5% 0,33W
3382	4822 052 10229▲	22Ω 5% 0,33W
3383	4822 116 52238	12k 5% 0,5W
3384	4822 113 80633▲	0Ω1 5% 3W
3385	4822 113 80633▲	0Ω1 5% 3W
3386	4822 116 52283	4k7 5% 0,5W
3387	4822 113 80633▲	0Ω1 5% 3W
3388	4822 116 52283	4k7 5% 0,5W
3389	4822 116 52283	4k7 5% 0,5W
3390	4822 116 52235	1M 5% 0,5W
3391	4822 116 52235	1M 5% 0,5W
3393	4822 116 52283	4k7 5% 0,5W
3396	4822 052 10228▲	2Ω2 5% 0,33W
3397	4822 052 10228▲	2Ω2 5% 0,33W

COILS

5252	4822 157 70599	Coil
5253	4822 157 70599	Coil
5254	4822 280 60567▲	Relay
5255	4822 280 60567▲	Relay
5256	4822 280 60567▲	Relay

DIODES

6250	4822 130 61219	BZX79-C10
6251	4822 130 61219	BZX79-C10
6252	4822 130 34281	BZX79-C15
6253	4822 130 34281	BZX79-C15
6254	4822 130 30621	1N4148
6255	5322 130 30684	1N4002GP
6256	4822 130 30842	BAV21
6257	4822 130 30842	BAV21
6258	5322 130 34563	BZX79-C2V7
6259	5322 130 34563	BZX79-C2V7
6260	5322 130 31504	BZX79-C3V3
6261	5322 130 31504	BZX79-C3V3
6262	4822 130 30842	BAV21
6263	4822 130 30842	BAV21
6264	4822 130 32213▲	BYV28-50
6265	4822 130 32213▲	BYV28-50
6266	4822 130 32213▲	BYV28-50
6267	4822 130 32213▲	BYV28-50
6268	4822 130 30621	1N4148
6269	4822 130 30621	1N4148
6270	4822 130 30621	1N4148
6271	4822 130 30621	1N4148
6272	4822 130 30621	1N4148
6273	4822 130 34278	BZX79-C6V8
6274	4822 130 30621	1N4148
6275	4822 130 30621	1N4148
6276	4822 130 30621	1N4148
6277	4822 130 30621	1N4148
6278	5322 130 30684▲	1N4002GP
6279	5322 130 30684▲	1N4002GP
6280	5322 130 30684▲	1N4002GP
6281	5322 130 30684▲	1N4002GP
6282	4822 130 34281	BZX79-C15
6283	4822 130 82078▲	D5SBA20
6284	4822 130 82079▲	D3SBA20
6285	4822 130 30621	1N4148
6286	4822 130 30621	1N4148
6287	4822 130 30621	1N4148
6288	4822 130 30621	1N4148
6289	4822 130 30621	1N4148
6290	4822 130 30621	1N4148
6291	4822 130 30621	1N4148
6292	4822 130 30621	1N4148
6293	4822 130 30621	1N4148
6294	4822 130 30621	1N4148
6295	4822 130 30621	1N4148
6296	4822 130 30621	1N4148
6297	4822 130 30621	1N4148
6298	4822 130 34281	BZX79-C15
6299	4822 130 30621	1N4148
6301	4822 130 34499	BZX79-C20
6302	4822 130 34281	BZX79-C15
6303	4822 130 30621	1N4148
6304	4822 130 30621	1N4148
6305	4822 130 30621	1N4148
6306	5322 130 30684	1N4002GP
6307	5322 130 30684	1N4002GP
6308	4822 130 30621	1N4148
6309	4822 130 30621	1N4148
6311	4822 130 30621	1N4148
6312	4822 130 30621	1N4148
6313	4822 130 30621	1N4148

TRANSISTORS & IC's

7250	4822 130 40937	BC548B
7251	4822 130 40937	BC548B
7252	4822 209 80891▲	MC 78M05CT
7255	4822 209 83274	NJM4560D
7256	4822 130 41691	BC556B
7257	4822 130 41691	BC556B

7258	4822 130 43283	2SC2705
7259	4822 130 43283	2SC2705
7260	4822 130 63317	2SC3419Y
7261	4822 130 63317	2SC3419Y
7264	4822 130 40937	BC548B
7265	4822 130 40937	BC548B
7266	4822 130 44197	BC558B
7267	4822 130 44197	BC558B
7268	4822 130 62954▲	2SD1895
7269	4822 130 62954▲	2SD1895
7270	4822 130 62954▲	2SD1895
7271	4822 130 62954▲	2SD1895
7272	4822 130 62953▲	2SB1255
7273	4822 130 62953▲	2SB1255
7274	4822 130 62953▲	2SB1255
7275	4822 130 62953▲	2SB1255
7276	4822 130 40937	BC548B
7277	4822 130 44461	BC546B
7279	4822 130 44461	BC546B
7280	4822 130 44461	BC546B
7281	4822 130 62952▲	BDT61F
7282	4822 130 40824▲	BD136
7283	4822 130 40937	BC548B
7284	4822 130 40937	BC548B
7285	4822 130 40959	BC547B
7286	4822 130 40941	BC558
7287	4822 130 40937	BC548B
7288	4822 130 40937	BC548B
7289	4822 130 40937	BC548B
7290	4822 130 41691	BC556B
7291	4822 130 44461	BC546B

DIGITAL SELECTOR

CAPACITORS

1475	4822 267 20453	Pin jack
2475	4822 126 10781	470pF 50V
2476	4822 122 33195	100pF 10% 50V
2477	4822 126 10781	470pF 50V
2478	4822 122 33195	100pF 10% 50V
2479	4822 126 10781	470pF 50V
2480	4822 122 33195	100pF 10% 50V
2481	4822 126 10781	470pF 50V
2482	4822 122 33195	100pF 10% 50V
2485	4822 122 10466	220pF 10% 50V
2486	4822 122 10466	220pF 10% 50V
2487	4822 122 10466	220pF 10% 50V
2489	4822 124 40435	10µF 20% 50V
2490	4822 124 40435	10µF 20% 50V
2492	4822 122 33195	100pF 10% 50V
2493	4822 122 33195	100pF 10% 50V
2495	4822 126 10781	470pF 50V
2496	4822 126 10781	470pF 50V
2497	4822 124 40435	10µF 20% 50V
2498	4822 124 40435	10µF 20% 50V
2499	4822 122 33195	100pF 10% 50V
2500	4822 122 33195	100pF 10% 50V
2501	4822 122 33195	100pF 10% 50V
2502	4822 122 33069	33pF 5%5L 50V

2503	4822 122 10166	22nF 30% 16V
2504	4822 124 40433	47µF 20% 25V
2505	4822 122 10166	22nF 30% 16V
2509	4822 122 10166	22nF 30% 16V
2510	4822 122 10166	22nF 30% 16V
2511	4822 122 10166	22nF 30% 16V
2512	4822 124 40246	4,7µF 20% 63V

RESISTORS

3475	4822 116 52202	82Ω 5% 0,5W
3476	4822 116 52176	10Ω 5% 0,5W
3477	4822 116 52202	82Ω 5% 0,5W
3478	4822 116 52176	10Ω 5% 0,5W
3479	4822 116 52202	82Ω 5% 0,5W
3480	4822 116 52176	10Ω 5% 0,5W
3481	4822 116 52202	82Ω 5% 0,5W
3482	4822 116 52176	10Ω 5% 0,5W
3485	4822 116 52269	3k3 5% 0,5W
3486	4822 050 11002	1k 1% 0,4W
3487	4822 116 52269	3k3 5% 0,5W
3488	4822 050 11002	1k 1% 0,4W
3489	4822 116 52269	3k3 5% 0,5W
3490	4822 050 11002	1k 1% 0,4W
3492	4822 116 52202	82Ω 5% 0,5W
3493	4822 116 52202	82Ω 5% 0,5W
3494	4822 050 22701	270Ω 1% 0,6W
3495	4822 050 22701	270Ω 1% 0,6W
3496	4822 050 11002	1k 1% 0,4W
3497	4822 050 11002	1k 1% 0,4W
3498	4822 050 11002	1k 1% 0,4W
3499	4822 116 52296	6k8 5% 0,5W
3500	4822 116 52233	10k 5% 0,5W
3501	4822 116 52233	10k 5% 0,5W
3502	4822 052 10479⚠	47Ω 5% 0,33W
3503	4822 050 11002	1k 1% 0,4W
3504	4822 116 52202	82Ω 5% 0,5W
3505	4822 052 10479⚠	47Ω 5% 0,33W
3506	4822 052 10479⚠	47Ω 5% 0,33W
3507	4822 052 10479⚠	47Ω 5% 0,33W
3508	4822 050 11002	1k 1% 0,4W

COILS

5476	4822 157 70601	Coil 100µH
5477	4822 157 70601	Coil 100µH

DIODES

6475	4822 130 30621	1N4148
6476	4822 130 30621	1N4148
6477	4822 130 30621	1N4148
6478	4822 130 30621	1N4148
6479	4822 130 30621	1N4148
6480	4822 130 30621	1N4148
6481	4822 130 34268	BZX79-C16
6482	4822 130 34167	BZX79-C6V2

TRANSISTORS & IC's

7475	4822 209 71339	TC9164N
7476	5322 209 11323	N74HCU04N
7477	5322 209 11323	N74HCU04N
7478	5322 209 11323	N74HCU04N
7479	4822 130 44197	BC558B
7480	4822 130 40823	BD135

AC OUTLET

1525	4822 276 13224⚠	Power switch
1526	4822 265 20594⚠	Mains outlet
1527	4822 265 20594⚠	Mains outlet
1528	4822 265 20594⚠	Mains outlet
1531	5322 253 30373⚠	Fuse 2A
1532	4822 272 10315⚠	Voltage sel. only/01S
2525	4822 126 12224⚠	4,7nF 20% 125V

SELECTOR and FRONT UNIT

MISCELLANEOUS

75	4822 255 41247	Ledholder
76	4822 466 70733	Light screen
1402	4822 267 31451	Pin jack
1403	4822 267 31449	Pin jack
1405	4822 267 31449	Pin jack
1601	4822 267 31453	Socket
1605	4822 273 10237	Rotary switch
1606	4822 276 13213	Tact switch
1607	4822 276 13213	Tact switch
1608	4822 276 13213	Tact switch
1609	4822 276 13213	Tact switch
1610	4822 276 13213	Tact switch
1611	4822 276 13213	Tact switch
1612	4822 276 13213	Tact switch
1620	4822 134 41102	Lamp 12V 75mA
1621	4822 134 41102	Lamp 12V 75mA
1622	4822 134 41102	Lamp 12V 75mA
1623	4822 134 41102	Lamp 12V 75mA
1624	4822 134 41102	Lamp 12V 75mA
1625	4822 134 41102	Lamp 12V 75mA
1626	4822 134 41102	Lamp 12V 75mA
1710	4822 265 41324	Connector 11P
1711	4822 267 51238	Connector 16P
1712	4822 267 51237	Connector 11P
1714	4822 267 51161	Connector 6P

CAPACITORS

2423	4822 122 10183	100pF 5% 50V
2424	4822 122 10183	100pF 5% 50V
2425	4822 122 10183	100pF 5% 50V
2426	4822 122 10183	100pF 5% 50V

2427	4822 122 10183	100pF 5% 50V
2428	4822 122 10183	100pF 5% 50V
2429	4822 122 10183	100pF 5% 50V
2430	4822 122 10183	100pF 5% 50V
2431	4822 122 10183	100pF 5% 50V
2432	4822 122 10183	100pF 5% 50V
2433	4822 122 10183	100pF 5% 50V
2434	4822 122 10183	100pF 5% 50V
2435	4822 122 10183	100pF 5% 50V
2436	4822 122 10183	100pF 5% 50V
2437	4822 122 10183	100pF 5% 50V
2438	4822 122 10183	100pF 5% 50V
2439	4822 122 10183	100pF 5% 50V
2440	4822 122 10183	100pF 5% 50V
2441	4822 122 10183	100pF 5% 50V
2442	4822 122 10183	100pF 5% 50V
2443	4822 122 10166	22nF 30% 16V
2444	4822 122 10166	22nF 30% 16V
2445	4822 124 22347	47µf 20% 50v
2446	4822 124 23624	47µF 20% 16V
2447	4822 126 10003	33nF 30% 50V
2448	4822 122 10166	22nF 30% 16V
2449	4822 122 10166	22nF 30% 16V
2450	4822 122 10166	22nF 30% 16V
2451	4822 124 22347	47µf 20% 50V
2452	4822 124 40433	47µF 20% 25V
2453	4822 126 10003	33nF 30% 50V
2454	4822 122 10166	22nF 30% 16V
2458	4822 126 11005	4,7nF 20% 50V
2466	4822 126 11005	4,7nF 20% 50V
2467	4822 126 11005	4,7nF 20% 50V
2468	4822 126 11005	4,7nF 20% 50V
2469	4822 126 11005	4,7nF 20% 50V
2470	4822 126 11005	4,7nF 20% 50V
2471	4822 126 11005	4,7nF 20% 50V
2472	4822 126 11005	4,7nF 20% 50V
2473	4822 126 11005	4,7nF 20% 50V
2474	4822 126 11005	4,7nF 20% 50V
2600	4822 124 40435	10µF 20% 50V
2601	4822 121 41754	82nF 10% 100V
2602	4822 121 41754	82nF 10% 100V
2603	4822 124 23179	10µF 20% 16V
2604	4822 124 23179	10µF 20% 16V
2605	4822 122 10181	47pF 5% 50V
2606	4822 122 10181	47pF 5% 50V
2607	4822 122 10183	100pF 5% 50V
2608	4822 122 10183	100pF 5% 50V
2609	4822 122 10183	100pF 5% 50V
2610	4822 122 10183	100pF 5% 50V
2611	4822 124 23176	22µF 20% 16V
2612	4822 124 23176	22µF 20% 16V
2613	4822 124 42368	22µF 35V
2614	4822 124 42368	22µF 35V
2615	4822 122 10166	22nF 30% 16V
2616	4822 122 10166	22nF 30% 16V
2617	4822 122 10177	10nF 20% 25V
2618	4822 124 40242	1µF 20% 63V
2619	4822 122 10177	10nF 20% 25V
2621	4822 121 51409	120nF 5% 63V
2622	4822 121 51409	120nF 5% 63V
2623	4822 121 51409	120nF 5% 63V
2624	4822 121 51409	120nF 5% 63V
2625	4822 126 11714	4,7nF 20%
2626	4822 126 11714	4,7nF 20%
2627	4822 124 41969	1µF 20% 50V
2628	4822 124 41969	1µF 20% 50V
2629	4822 122 10183	100pF 5% 50V
2630	4822 122 10183	100pF 5% 50V
2631	4822 122 33997	56pF 5%NPO
2632	4822 122 33997	56pF 5%NPO
2633	4822 124 23176	22µF 20% 16V
2634	4822 124 23176	22µF 20% 16V
2635	4822 122 10166	22nF 30% 16V
2636	4822 122 10166	22nF 30% 16V
2637	4822 124 42368	22µF 35V
2638	4822 124 42368	22µF 35V
2639	4822 122 10166	22nF 30% 16V
2640	4822 121 42408	220nF 5% 63V
2641	4822 124 22347	47µF 20% 50V
2642	4822 122 31693	560pF 10% 50V
2643	4822 124 40246	4,7µF 20% 63V
2644	4822 124 40242	1µF 20% 63V
2661	4822 122 10166	22nF 30% 16V
2662	4822 122 10166	22nF 30% 16V
2663	4822 126 11714	4,7nF 20%
2664	4822 121 42408	220nF 5% 63V
2667	4822 124 23176	22µF 20% 16V
2668	4822 121 51412	560nF 5% 63V
2669	5322 121 42498	680nF 5% 63V
2670	5322 121 42498	680nF 5% 63V
2672	4822 126 11714	4,7nF 20%
2685	4822 124 40435	10µF 20% 50V
2686	4822 122 10166	22nF 30% 16V
2687	4822 124 40244	2,2µF 20% 63V
2688	4822 121 41853	100nF 10% 100V

RESISTORS

3423	4822 116 52175	100Ω 5% 0,5W
3424	4822 116 52175	100Ω 5% 0,5W
3425	4822 116 52175	100Ω 5% 0,5W
3426	4822 116 52175	100Ω 5% 0,5W
3427	4822 116 52175	100Ω 5% 0,5W
3428	4822 116 52175	100Ω 5% 0,5W
3429	4822 116 52175	100Ω 5% 0,5W
3430	4822 116 52175	100Ω 5% 0,5W
3431	4822 116 52175	100Ω 5% 0,5W
3432	4822 116 52175	100Ω 5% 0,5W
3433	4822 116 52175	100Ω 5% 0,5W
3434	4822 116 52175	100Ω 5% 0,5W
3435	4822 116 52175	100Ω 5% 0,5W
3436	4822 116 52175	100Ω 5% 0,5W
3437	4822 116 52175	100Ω 5% 0,5W
3438	4822 116 52175	100Ω 5% 0,5W
3439	4822 116 52175	100Ω 5% 0,5W
3440	4822 116 52175	100Ω 5% 0,5W
3441	4822 116 52175	100Ω 5% 0,5W
3442	4822 116 52175	100Ω 5% 0,5W
3443	4822 116 52217	270Ω 5% 0,5W
3444	4822 116 52217	270Ω 5% 0,5W
3445	4822 116 52217	270Ω 5% 0,5W
3446	4822 116 52217	270Ω 5% 0,5W
3447	4822 116 52269	3k3 5% 0,5W
3448	4822 116 52269	3k3 5% 0,5W
3600	4822 116 52283	4k7 5% 0,5W
3601	4822 101 21175	50k POTM

3603	4822 101 21176	100k POTM
3605	4822 116 52289	5k6 5% 0,5W
3606	4822 116 52289	5k6 5% 0,5W
3607	4822 116 52284	47k 5% 0,5W
3608	4822 116 52284	47k 5% 0,5W
3609	4822 050 11002	1k 1% 0,4W
3610	4822 050 11002	1k 1% 0,4W
3611	4822 116 52234	100k 5% 0,5W
3612	4822 116 52234	100k 5% 0,5W
3613	4822 050 11002	1k 1% 0,4W
3614	4822 050 11002	1k 1% 0,4W
3615	4822 050 11002	1k 1% 0,4W
3616	4822 050 11002	1k 1% 0,4W
3617	4822 116 52256	2k2 5% 0,5W
3618	4822 116 52256	2k2 5% 0,5W
3619	4822 052 10479▲	47Ω 5% 0,33W
3620	4822 052 10479▲	47Ω 5% 0,33W
3621	4822 116 52175	100Ω 5% 0,5W
3622	4822 116 52175	100Ω 5% 0,5W
3623	4822 116 52283	4k7 5% 0,5W
3624	4822 116 52283	4k7 5% 0,5W
3625	4822 116 52226	560Ω 5% 0,5W
3626	4822 116 52226	560Ω 5% 0,5W
3627	4822 116 52283	4k7 5% 0,5W
3628	4822 116 52283	4k7 5% 0,5W
3629	4822 116 52226	560Ω 5% 0,5W
3630	4822 116 52226	560Ω 5% 0,5W
3631	4822 116 52256	2k2 5% 0,5W
3632	4822 116 52256	2k2 5% 0,5W
3637	4822 050 11002	1k 1% 0,4W
3638	4822 050 11002	1k 1% 0,4W
3639	4822 116 52234	100k 5% 0,5W
3640	4822 116 52224	470Ω 5% 0,5W
3641	4822 116 52284	47k 5% 0,5W
3645	4822 116 52202	82Ω 5% 0,5W
3646	4822 116 52202	82Ω 5% 0,5W
3647	4822 116 52283	4k7 5% 0,5W
3648	4822 116 52283	4k7 5% 0,5W
3649	4822 116 52249	1k8 5% 0,5W
3650	4822 116 52249	1k8 5% 0,5W
3651	4822 101 21177	20k POTM
3652	4822 101 21177	20k POTM
3653	4822 116 52283	4k7 5% 0,5W
3654	4822 116 52283	4k7 5% 0,5W
3655	4822 116 52249	1k8 5% 0,5W
3656	4822 116 52249	1k8 5% 0,5W
3657	4822 116 52213	180Ω 5% 0,5W
3658	4822 116 52213	180Ω 5% 0,5W
3659	4822 116 52175	100Ω 5% 0,5W
3660	4822 116 52175	100Ω 5% 0,5W
3661	4822 116 52292	560k 5% 0,5W
3662	4822 116 52292	560k 5% 0,5W
3665	4822 052 10479▲	47Ω 5% 0,33W
3666	4822 052 10479▲	47Ω 5% 0,33W
3667	4822 116 52289	5k6 5% 0,5W
3668	4822 116 52289	5k6 5% 0,5W
3669	4822 050 21005	1M 1% 0,6W
3670	4822 116 52233	10k 5% 0,5W
3671	4822 116 52197	56Ω 5% 0,5W
3672	4822 116 52233	10k 5% 0,5W
3673	4822 050 21005	1M 1% 0,6W
3674	4822 050 21005	1M 1% 0,6W
3675	4822 116 52222	390Ω 5% 0,5W
3676	4822 116 52249	1k8 5% 0,5W
3677	4822 116 52233	10k 5% 0,5W
3678	4822 052 10228▲	2Ω2 5% 0,33W
3679	4822 053 11159▲	15Ω 5% 2W
3680	4822 116 52269	3k3 5% 0,5W
3685	4822 052 10109▲	10Ω 5% 0,33W
3686	4822 050 21005	1M 1% 0,6W
3687	4822 116 52272	330k 5% 0,5W
3688	4822 116 52233	10k 5% 0,5W
3689	4822 116 52283	4k7 5% 0,5W
3690	4822 116 52269	3k3 5% 0,5W
3691	4822 116 52249	1k8 5% 0,5W
3693	4822 052 10478▲	4Ω7 5% 0,33W
3696	4822 116 52217	270Ω 5% 0,5W
3697	4822 116 52217	270Ω 5% 0,5W
3698	4822 116 52217	270Ω 5% 0,5W
3699	4822 116 52217	270Ω 5% 0,5W
3700	4822 116 52217	270Ω 5% 0,5W
3701	4822 116 52217	270Ω 5% 0,5W
3702	4822 116 52217	270Ω 5% 0,5W
3703	4822 116 52217	270Ω 5% 0,5W
3704	4822 116 52215	220Ω 5% 0,5W
3705	4822 050 11002	1k 1% 0,4W
3706	4822 050 11002	1k 1% 0,4W
3708	4822 050 11002	1k 1% 0,4W
3709	4822 050 11002	1k 1% 0,4W
3710	4822 050 11002	1k 1% 0,4W
3711	4822 050 11002	1k 1% 0,4W
3714	4822 050 11002	1k 1% 0,4W
3716	4822 116 52256	2k2 5% 0,5W
3717	4822 116 52256	2k2 5% 0,5W
3718	4822 116 52256	2k2 5% 0,5W
3719	4822 116 52256	2k2 5% 0,5W
3720	4822 116 52256	2k2 5% 0,5W
3721	4822 116 52256	2k2 5% 0,5W
3722	4822 050 11002	1k 1% 0,4W
3724	4822 116 52233	10k 5% 0,5W
3726	4822 116 52233	10k 5% 0,5W
3728	4822 116 52251	18k 5% 0,5W
3730	4822 116 52264	27k 5% 0,5W
3731	4822 116 52264	27k 5% 0,5W
3732	4822 116 52264	27k 5% 0,5W
3733	4822 116 52264	27k 5% 0,5W
3734	4822 116 52264	27k 5% 0,5W
3739	4822 116 52284	47k 5% 0,5W
3740	4822 116 52284	47k 5% 0,5W
3741	4822 116 52284	47k 5% 0,5W
3742	4822 116 52284	47k 5% 0,5W
3744	4822 116 52257	22k 5% 0,5W
3745	4822 116 52235	1M 5% 0,5W
3746	4822 116 52284	47k 5% 0,5W
3747	4822 116 52233	10k 5% 0,5W
3750	4822 116 52283	4k7 5% 0,5W
3751	4822 116 52283	4k7 5% 0,5W
3752	4822 116 52283	4k7 5% 0,5W
3753	4822 116 52283	4k7 5% 0,5W

COILS

5601	4822 101 21178	Coil 120µH
5602	4822 101 21178	Coil 120µH
5605	4822 242 72527	CST 4MHz

DIODES

6401	4822 130 31253	BZX79-C2V4
6601	4822 130 30621	1N4148
6603	4822 130 30621	1N4148
6604	4822 130 34278	BZX79-C6V8
6605	4822 130 34278	BZX79-C6V8
6606	4822 130 30621	1N4148
6607	4822 130 30621	1N4148
6608	4822 130 30621	1N4148
6609	4822 130 34499	BZX79-C20
6610	5322 130 30684	1N4002GP
6611	4822 130 30621	1N4148
6612	4822 130 34233	BZX79-C5V1
6613	4822 130 31253	BZX79-C2V4
6614	4822 130 34167	BZX79-C6V2
6615	4822 130 34174	BZX79-C4V7
6616	4822 130 31253	BZX79-C2V4
6617	4822 130 34499	BZX79-C20
6620	4822 130 31253	BZX79-C2V4
6621	4822 130 31253	BZX79-C2V4
6629	4822 130 30621	1N4148
6630	4822 130 30621	1N4148
6632	4822 130 30621	1N4148
6633	4822 130 30621	1N4148
6634	4822 130 30621	1N4148
6635	4822 130 82978	LED
6636	4822 130 82978	LED
6637	4822 130 82978	LED
6638	4822 130 82978	LED
6639	4822 130 82978	LED
6640	4822 130 82978	LED
6641	4822 130 82978	LED
6642	4822 130 82978	LED
6643	4822 130 82978	LED
6644	4822 130 82978	LED
6645	4822 130 82978	LED
6646	4822 130 82978	LED
6647	4822 130 82978	LED
6648	4822 130 82978	LED
6685	4822 130 34197	BZX79-C12
6686	4822 130 30621	1N4148
6687	4822 130 82978	LED
6690	5322 130 34834	BZX79-C3V6
6691	5322 130 34834	BZX79-C3V6
6692	5322 130 34834	BZX79-C3V6
6693	5322 130 34834	BZX79-C3V6
6700	4822 214 52009	GP1U58XP
6701	4822 130 30621	1N4148
6702	4822 130 30621	1N4148
6703	4822 130 30621	1N4148
6704	4822 130 30621	1N4148
6705	4822 130 30621	1N4148
6706	4822 130 30621	1N4148

TRANSISTORS & IC's

7402	4822 209 72748	LC7821
7403	4822 209 72748	LC7821
7601	4822 130 40937	BC548B
7602	4822 130 40937	BC548B
7603	4822 209 30941	NJM2068D
7604	4822 130 40937	BC548B
7605	4822 209 10263	HEF4052BP
7607	4822 130 40937	BC548B
7608	4822 130 40937	BC548B
7609	4822 209 83274	NJM4560D
7610	4822 209 63667	BA6229
7611	5322 130 42216	TL081CP
7612	4822 130 44197	BC558B
7631	4822 130 40937	BC548B
7633	4822 130 40937	BC548B
7636	4822 130 40937	BC548B
7639	4822 130 44197	BC558B
7640	4822 130 40937	BC548B
7641	4822 130 40937	BC548B
7642	4822 130 40937	BC548B
7643	4822 130 40937	BC548B
7644	4822 130 40937	BC548B
7645	4822 130 40937	BC548B
7646	4822 130 40937	BC548B
7647	5322 209 11532	PC74HC4094P
7648	5322 209 11532	PC74HC4094P
7649	4822 209 31168	ST93C06B1
7650	4822 209 32414	MHz 68HC05C8
7685	4822 209 10264	HEF4069UBP

MM - MC UNIT

CAPACITORS

1801	4822 267 20452	Pin jack
1802	4822 276 13412	MM-MC switch
2801	4822 122 33197	1nF 10% 50V
2802	4822 122 33197	1nF 10% 50V
2803	4822 122 10466	220pF 10% 50V
2804	4822 122 10466	220pF 10% 50V
2807	4822 126 12339	2,2nF 10% Y5Ω
2808	4822 126 12339	2,2nF 10% Y5Ω
2809	4822 124 41997	470µF 10V
2810	4822 124 41997	470µF 10V
2811	4822 124 40433	47µF 20% 25V
2812	4822 124 40433	47µF 20% 25V
2813	4822 121 41761	5,6nF 10% 400V
2814	4822 121 41761	5,6nF 10% 400V
2815	4822 122 33197	1nF 10% 50V
2816	4822 122 33197	1nF 10% 50V
2817	4822 121 41922	22nF 10% 250V
2818	4822 121 41922	22nF 10% 250V
2819	4822 124 40435	10µF 20% 50V
2820	4822 124 40435	10µF 20% 50V
2821	4822 122 10577	3,3nF 10% 16V
2822	4822 122 10577	3,3nF 10% 16V
2823	4822 126 11585	22nF +80-20% 25V
2824	4822 126 11585	22nF +80-20% 25V
2825	4822 124 40201	1000µF 20% 16V
2826	4822 124 41643	100µF 20% 16V
2827	4822 126 11714	4,7nF 20%
2828	4822 126 11714	4,7nF 20%

RESISTORS

3801	4822 116 52284	47k 5% 0,5W
3802	4822 116 52284	47k 5% 0,5W
3803	4822 116 52175	100Ω 5% 0,5W
3804	4822 116 52175	100Ω 5% 0,5W
3805	4822 116 52175	100Ω 5% 0,5W
3806	4822 116 52175	100Ω 5% 0,5W
3807	4822 050 22202	2k2 1% 0,6W
3808	4822 050 22202	2k2 1% 0,6W
3809	4822 050 22202	2k2 1% 0,6W
3810	4822 050 22202	2k2 1% 0,6W
3811	4822 116 52263	2k7 5% 0,5W
3812	4822 116 52263	2k7 5% 0,5W
3813	4822 116 52213	180Ω 5% 0,5W
3814	4822 116 52213	180Ω 5% 0,5W
3815	4822 050 11002	1k 1% 0,4W
3816	4822 050 11002	1k 1% 0,4W
3817	4822 116 52184	18Ω 5% 0,5W
3818	4822 116 52184	18Ω 5% 0,5W
3819	4822 116 52238	12k 5% 0,5W
3820	4822 116 52238	12k 5% 0,5W
3821	4822 116 52245	150k 5% 0,5W
3822	4822 116 52245	150k 5% 0,5W
3825	4822 116 52284	47k 5% 0,5W
3826	4822 116 52284	47k 5% 0,5W
3827	4822 116 52199	68Ω 5% 0,5W
3828	4822 116 52199	68Ω 5% 0,5W
3829	4822 052 10229⚠	22Ω 5% 0,33W
3830	4822 052 10229⚠	22Ω 5% 0,33W
3831	4822 116 52202	82Ω 5% 0,5W
3833	4822 116 52195	47Ω 5% 0,5W
3834	4822 116 52195	47Ω 5% 0,5W

COILS

5801	4822 157 70062	Coil 320µH
5802	4822 157 70062	Coil 320µH

TRANSISTORS & IC's

7801	4822 130 63122	2SK369BL
7802	4822 130 63122	2SK369BL
7803	4822 130 63122	2SK369BL
7804	4822 130 63122	2SK369BL
7805	4822 209 73064	NJM2068D-D
5001	4822 146 31237⚠	Mains trafo
5001	4822 146 31265⚠	Mains trafo /01S